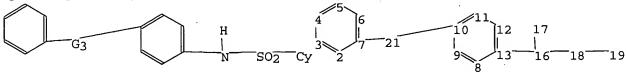
=>

Uploading C:\Program Files\Stnexp\Queries\11810325.str



chain nodes :

16 17 18 19 21

ring nodes :

2 3 4 5 6 7 8 9 10 11 12 13

chain bonds :

7-21 10-21 13-16 16-17 16-18 18-19

ring bonds :

2-3 $2-7 \cdot 3-4$ 4-5 5-6 6-7 8-9 8-13 9-10 10-11 11-12 12-13

exact/norm bonds :

7-21 10-21 13-16 16-18 18-19

exact bonds :

16-17

normalized bonds :

2-3 2-7 3-4 4-5 5-6 6-7 8-9 8-13 9-10 10-11 11-12 12-13

isolated ring systems :

containing 8 :

G1:0,5

G2

G3:C,O,S

Match level :

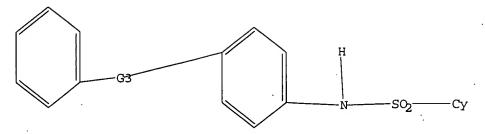
2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 12:Atom 13:Atom 16:CLASS 17:CLASS 18:CLASS 19:Atom 21:CLASS

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR



G1 0,S

G2

G3 C, O, S

Structure attributes must be viewed using STN Express query preparation.

=> s l1 full

L3 1222 SEA SSS FUL L1

=> file ca

=> s 13

L4 482 L3

=> s 14 and py<2000

19363962 PY<2000

L5 403 L4 AND PY<2000

=> s 15 and (ppar or drug?)

5839 PPAR

722547 DRUG?

L6 20 L5 AND (PPAR OR DRUG?)

=> s 15 and drug?

722547 DRUG?

L7 18 L5 AND DRUG?

=> s 15 and ppary

15 PPARY

L8 0 L5 AND PPARY

=> s 15 and ppar

5839 PPAR

L9 2 L5 AND PPAR

=> s 15 and pharm?

518794 PHARM?

L10 27 L5 AND PHARM?

=> s 15 and modulat?

297078 MODULAT?

L11 2 L5 AND MODULAT?

=> s 16 or 17 or 18 or 19 or 110 or 111

L12 41 L6 OR L7 OR L8 OR L9 OR L10 OR L11

=> d ibib abs fhitstr 1-41

COPYRIGHT 2005 ACS on STN

139:307685 CA
Preparation of sulfonyl aryl or heteroaryl hydroxamic acid compounds as matrix metalloprotease inhibitors Bedell, Louis J.; Mcdonald, Joseph J.; Barta, Thomas Bedell, Louis J.; Mcdonald, Joseph J.; Barta, Thomas B.; Becker, Daniel P.; Rao, Shashidhar N.; Freskos, John N.; Mischke, Brent V.; Getman, Daniel P.; Decrescenzo, Gary A.; Villamil, Clara I.
G.D. Searle and Co., USA
U.S. Pat. Appl. Publ., 200 pp., Cont.-in-part of U.S. Ser. No. 230, 209.
CODEN: USXXCO
Patent
English
10 L12 ANSWER 1 OF 41 CA ACCESSION NUMBER: TITLE: PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND APPLICATION NO. DATE US 2003191317 US 6794511 WO 9838859 W: AL, A

ATE AFFLICATION NO. DATE

AT 20031009 US 2000-728408 20001201

AT 199809311 WO 1998-US4300 19980304 <-BB, BG, BR, CA, CN, CU, CZ, EE, GE, GH, GV, HU, ID, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, ST, SK, SK, SK, TR, TT, UA, US, UZ, VN, VU, AM, AZ, BY, RU, TJ, TM

RU, TJ, TM

RY, NB, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, IE, IT, LU, MC, NI, PT, SE, BF, BJ, CF, CG, CI, CM, MR, NE, SN, TD, TG

AT 20010906 US 1999-230209 19990624

BZ 20020430

AT 20030417 US 2001-909227 20010719

BZ 20040224

AT 20050407 US 2004-867391 20040614

WO 1998-US4300 AT 19980304 W: AL, AU, BA, IL, IS, JP, PL, RO, SG, KG, KZ, MD, RW: GH, GM, KE, FR, GB, GR, GA, GN, ML, US 2001020021 US 6380258 US 2003073845 US 6696449 US 2005075374 US 2004-867391 WO 1998-US4300 US 1999-310813 US 1999-230209 US 1997-35182P US 2000-559034 US 2000-728408 PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 139:307685

The title compds. [I; m, n = 0 or 1 and the sum of m + n is 0 or 1; the

L12 ANSWER 1 OF 41 CA COPYRIGHT 2005 ACS on STN

REFERENCE COUNT:

70 THERE ARE 70 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L12 ANSWER 1 OF 41 CA COPYRIGHT 2005 ACS on STN (Continued) ring structure w is a 5- or 6-membered arom. or heteroarom. ring; X - CH2 or (un) substituted NH2; R1 = (i) a substituent contg. a 5- or 6-membered cyclohydrocarbyl, heterocyclyl, aryl or heteroaryl radical bonded directly to the depicted SO2 group or (ii) (un) substituted? R2, R3 = H, alkyl, alkynyl, alkynyl, hydroxyalkyl, 0- or S-(un) substituted hydroxyalkyl or aercaptoalkyl, hydroxy, thiol, haloalkyl, N-(un) substituted amino, aminoalkyl, aminoalkon, which aminoalkyl, aminoalkon, aminoalkyl, aminoalkon, which aminoalkyl, aminoalkon, or aminoalkon, heteroaryl, heteroarylalkyl, heteroarylalkyl, heterocyclylthio, heteroaryl, heteroarylalkyl, heteroaryloxy, beterocyclylthio, heteroaryl, hydroxyalkyl, alkyl, the to 8-membered carbocycly or CR2R3 together forms an (un) substituted of to 8-membered carbocyclic or heterocyclic ring, that is preferably a 5- or 6-membered tring; R5, R6 = H, alkyl, cycloalkon, hydroxyalkyl, N-(un) substituted aminoalkyl or aminoalkony, thiol, alkylthio, arylthio, cycloalkylthio, cycloalkylthory, lakoalkony, haloalkyl, haloalkyl, haloalkyl, heterocyclyloxy, or R5 and R6 together with the atoms to which they are bonded form a further aliph, or arom. cerbocyclic or heterocyclic ring having 5- to 7-members; R20 = each (un) substituted GH, NHOM, or NH2] or phermacentically acceptable salts thereof are preped. Also disclosed is a treatment process that comprises administering a contemplated sulfonyl arom. or heteroarom, ring hydroxamic acid compd. in a matrix metalloprocesse (HMP) enzyme-inhibiting effective amt, to a host having a condition assocd. with pathol, HMP activity. Thus, thioetherification of 4-phenoxyhenzenathiol with 2-fluorobenzaldebyde in the presence of K2CO3 in isopropanol under reflux for 20 h gave 2-(4-phenoxyhenyhenzenathiol with 2-fluorobenzaldebyde in the presence of NACO3 in isopropanol under reflux for 2 h gave 2-(4-phenoxyhenyhenzylthiol) with was condensed with tetra-Et dimethylaminomethylenediphosphonate

ide
RL: PAC (Pharmacological activity), SPN (Synthetic preparation), THU
(Therapeutic use), BIOL (Biological study), PREP (Preparation), USES
(Uses)
(Therapeutic of sulfonvl arvl or heteroaryl hydroxamic acid compd:

(Uses)
(preparation of sulfonyl aryl or heteroaryl hydroxamic acid compds. as matrix metalloprotesse inhibitors)
308385-50-4 CA
Benzamide, N-hydroxy-2-[[(4-phenoxyphenyl)amino)sulfonyl]- (9CI) (CA
INDEX NAME)

COPYRIGHT 2005 ACS on STN
132:22753 CA
Preparation of N-(arylsulfonylphenyl)-2-hydroxy-2methyl-3,3,3-trifluoropropanamide derivatives for the
elevation of pyruvate dehydrogenase (PDH) activity
Butlin, Roger John Nowak, Thorsten, Burrows, Jeremy
Nicholas; Block, Michael Howard
Zeneca Limited, UK
PCT Int. Appl., 211 pp.
CODEN: PIXMO2
Patent
English L12 ANSWER 2 OF 41 CA ACCESSION NUMBER: TITLE:

English

INVENTOR(S):

PATENT ASSIGNEE (S): SOURCE:

DOCUMENT TYPE:

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

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												, HR,						
												, LT,						
												, SE,						
						UG,	US,	UZ,	VN,	YU,	ZA,	, ZW,	AM,	ΑZ,	BY,	KG,	KZ,	MD,
				ΤJ,														
		RW:	GH,	GM,	ΚE,	LS,	MW,	SD,	SL,	SZ,	UG,	, ZW,	ΑT,	BE,	CH,	CY,	DE,	DK,
			ES,	FI,	FR,	GB,	GR,	İĒ,	IT,	LU,	MC,	, NL,	PT,	SE,	BF,	ВJ,	CF,	CG,
			CI,	CM,	GA,	GN,	GW,	ML,	MR,	ΝE,	SN,	, TD,	TG					
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	EP	1082	110			Al		2001	0314		EP :	1999-	9237	67		1	19990	526
	EP	1082	110			B1		2004	0324							c.		526 < 526 < 526 526
		ĸ:	ΛI,	BE,	un,	ve,	ur,	ED,	rn,	GD,	GA,	, 11,	PT.	LU,	NL,	JE,	nc,	E1.
			15,	\$1,	LT,	TA'	FI,	RO	1011		mn .	2000	2000	0252				526
	TR	2000	0352	•		12		2001	1022		IK.	2000-	2000 601	. 332	4		13330	526
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	DT	1082	110			Ť		2004	0730		PT .	1999-	9237	67		- 1	9990	526
	FC	2217	754			1 3		2004	1101		rc ·	1999-	9237	67			9990	526
	וופ	2242	224			C2		2004	1220		RU :	2000-	1332	21		- 1	9990	526
	2.A	2000	0066	45		Ä		2002	0815		ZA :	2000-	6645			- 3	20001	115
	115	6498	275	••		B1		2002	1224		US	2000-	7003	70		- 3	20001	115
	NO	2000	0060	10		Ä		2001	0126		NO :	2000- 2000- 2000- 1999- 1999- 2000- 2000- 2000- 2001- 2002- 1998- 1999-	6010			- 1	20001	128
	нк	1033	652	•		A1		2004	0930		нк	2001-	1042	30		- 1	20010	619
	US	2004	0099	79		A1		2004	0115		บร	2002-	2779	57			20021	023
c	RIT	APP	LN.	INFO	. :						GB	1998-	1142	7		Α :	19980	529
•		•									VO	1999-	GB16	69		w :	19990	526
											US :	2000-	7003	70		A3 2	20001	115

OTHER SOURCE(S): MARPAT 132:22753 L12 ANSWER 2 OF 41 CA COPYRIGHT 2005 ACS on STN (Continued)

$$(R^1)_n - D - A - B - \frac{C}{R^4} - R^3$$

$$\vdots$$

$$C1$$

$$OH$$

$$CC - CF_3$$

$$Me - CO - NH - CO - \frac{C}{Me} - CF_3$$

$$\vdots$$

$$Me - CO - NH - CO - \frac{C}{Me} - CF_3$$

AB Aryl Ph sulfone and sulfoxide derivs. (I) [where ring D = (un) substituted Ph, pyridyl, pyrazinyl, pyrimidinyl, pyridazinyl, or other 6-membered N-containing heteroaryl ring, R1 = (hetero) arylsulfonyl, (hetero) arylsulfinyl, (hetero) arylsulfinyl, (hetero) arylsulfonyl, (halo) alkyl, (halo) alkoxy, alkenyloxy, cyano, NO2, halo, S-CF3, OH, or a variety of (un) substituted functional groups; n = 1 or 2; R2 and R3 = independently (halo) alkyl or 3-5 membered (halo)cycloalkyl ring; A-B = NH-C(O), O-CH2, S-CH2, (trans)-vinylene, ethynylene, NH-C(S), or C(O)-CH2; R4 = H, OH, halo, NH2, or Me], and pharmaceutically acceptable salts or in vivo hydrolysable esters thereof, were prepared on Grompds of formula I are also described. For example, (R)-(+)-2-hydroxy-2-methyl-3, 3, 3-trifluoropropânoic acid (preparation

example, (R)-(+)-2-hydroxy-2-methy1-3,3,3-triansoction (preparation)
given) was mixed with oxalyl chloride and added to 4-(4acetamidophenylsulfonyl)-2-chloroaniline (preparation in DCM to yield
(R)-M-[4-(4-acetamidophenylsulfonyl)-2-chlorophenyl]-2-hydroxy-2-methyl3,3,3-trifluoropropanamide (R)-(II). Title compds. elevate pyruvate
dehydrogenase (PDM) activity (no data) and are useful in the treatment of
diabets mellitus, peripheral vascular disease, cardiac failure and
certain cardiac myopathies, myocardial ischemia, cerebral ischemia and
perfusion, muscle weakness, hyperlipidemias, Alzheimer's disease, and/or
atherosclerosis.

IT 25018-30-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological

IT 252018-30-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(target compound; preparation of N-(arylsulfony)phenyl)-2-phydroxy-2-methyl3,3,3-trifluoropropanamide derivs. for elevation of pyruvate dehydrogenase (PDH) activity)

RN 252018-30-7 CA

252018-30-7 CA
Propanamide, N-[2-chloro-4-[(4-[(phenylsulfonyl)amino]phenyl]thio]phenyl]3,3,3-trifluoro-2-hydroxy-2-methyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L12 ANSWER 3 OF 41 CA

ACCESSION NUMBER:

TITLE:

Determination of 4,4'-diaminodiphenyl sulfone and its derivatives in biological samples by spectrophotometry and chromatography

EVGen'ev, M. I. Garmonov, S. Yu.; Pogorel'tsev, V.

I.; Shakirova, E. F.

CORPORATE SOURCE:

SOURCE:

CORPORATE SOURCE:

SOURCE:

AL STATE SOURCE:

SOURCE:

DOCUMENT ANALITICHERSON KNimil) (1999),

54(5), 543-548

CODEN: JACTE2; ISSN: 1061-9348

HAIK NAUKA/Interperiodica Publishing

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB Spectrophotometry and high-performance liquid and thin-layer chromatog. were used to termining medicinal substances such as 4,4'-diaminodiphenyl

sulfone

used for determining amounts. As a sufficient of the sufficient of

ΙT

human body. 34541-71-4, Diucifone RL: ANT (Analyte): BFR (Biological process): BSU (Biological study, unclassified): ANST (Analytical study): BIOL (Biological study): PROC

(Process)
(determination of diaminodiphenyl sulfone and derivs. in biol. samples by spectrophotometry and chromatog. in relation to pharmacokinetics)
34941-71-4 CA
5-Pyrimidinesulfonamide, N.N'-(sulfonyldi-4,1-phenylene)bis[1,2,3,4-tetrahydro-6-methyl-2,4-dioxo- (9CI) (CA INDEX NAME)

20

REFERENCE COUNT:

THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 41 CA COPYRIGHT 2005 ACS on STN (Continued)

REFERENCE COUNT:

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

INVENTOR(S):	on treatment of type II diabetes and obesity De La Brouse-Elwood, Fabienne; Jaen, Juan C.; McGee, Lawrence R.; Miao, Shi-Chang; Rubenstein, Steven Marc; Chen, Jin-Long; Cushing, Timothy D.; Flygare, John A.; Houze, Jonathan B.; Kearney, Patrick C.											
PATENT ASSIGNEE(S):	PCT Int. Appl., 88 pp. CODEN: PIXXD2											
DOCUMENT TYPE:	Patent											
	English											
FAMILY ACC. NUM. COUNT: PATENT INFORMATION:												
	KIND DATE APPLICATION NO. DATE											
	A1 19990805 W0 1999-US1147 19990120 <											
	AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,											
W: AL, AN, AI,	FI. GB. GD. GE. GH. GM. HR. HU. ID. IL. IN. IS, JP.											
	KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,											
MW MX NO.	NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,											
TR TT IIA	UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM											
	LS. MW. SD. SZ. UG. ZW. AT. BE, CH. CY. DE, DK. ES,											
FT. FR. GR.	GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,											
CM. GA. GN.	GW, ML, MR, NE, SN, TD, TG											
CA 2319731	AA 19990805 CA 1999-2318731 19990120 <											
AU 9921176	A1 19990816 AU 1999-21176 19990120 <											
AU 759255	B2 20030410											
EP 1053227	A1 19990816 AU 1999-21176 19990120 < B2 20030410 A1 20001122 EP 1999-901492 19990120											
R: AT. BR. CH.	DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,											
IE, FI	22, 214, 20, 114, 42, 414, 117, 117, 117, 117, 117,											
	B1 20010313 US 1999-234327 19990120											
JP 2002501945	T2 20020122 JP 2000-530082 19990120											
US 2001027200	A1 20011004 US 2000-741415 20001219											
US 2001027200 US 6620827	B2 20030916											
US 2002169185	A1 20021114 US 2001-894980 20010627											
US 6583157	B2 20030624											
US 2003088103	A1 20030508 US 2002-123298 20020415											
PRIORITY APPLN. INFO.:	US 1998-73042P P 19980129											
US 2002169185 US 6583157 US 2003088103 PRIORITY APPLN. INFO.:	US 1999-234327 A1 19990120 WO 1999-US1147 W 19990120											
	US 2000-214810P P 20000628											
	US 2000-741415 A1 20001219											
OTHER SOURCE(S):	MARPAT 131:144406											

131:144406 CA Preparation of PPAR-GAMMA modulators

L12 ANSWER 4 OF 41 CA COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 131:144406 CA

L12 ANSWER 4 OF 41 CA COPYRIGHT 2005 ACS on STN (Continued)

Title compds. [I) Arl is aryl, X is a divalent linkage of alkylene, alkylenoxy, -O-, -C(O)-, -N(RI1)-, -N(RI1)C(O)-, -S(O)k- and a single bond, in which RI1 is hydrogen, alkyl, heteroalkyl, and arylalkyl and the subscript k is an integer of from O to 2; Y is a divalent linkage selected from alkylene, -O-, -C(O)-, -N(RI2)-S(O)m-, -N(RI3)-S(O)m-N(RI3)-, -N(RI3)-S(O)m-N(RI3)-, -N(RI3)-S(O)m-N(RI3)-, -N(RI3)-S(O)m-N(RI3)-, -N(RI3)-S(O)m-N(RI3)-, -N(RI3)-S(O)m-N(RI3)-, -N(RI3)-S(O)m-N(RI3)-, heteroalkyl and arylalkyl and be subscripts m and n independently integers of from O to 2; R1 represents a member selected from the group consisting of hydrogen, alkyl, heteroalkyl and arylalkyl, -C(O)-RI3-(O)-

235427-19-7 CA Benzoic acid, 5-[[(2,4-dichlorophenyl)sulfonyl]amino]-2-(3,5-difluorophenoxy)-, ethyl ester (9CI) (CA INDEX NAME)

L12 ANSWER 5 OF 41 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
TITLE:
INVENTOR(S):
Soboo, Soumya P.; Tolman, Richard L.; Han, Wei;
Bergmann, Jaffrey; Santini, Conrad; Lombardo, Vicki
R.; Debai, Ranjit; Boueres, Julia K.; Gratale,
Dominick F.
PATENT ASSIGNEE(S):
SOURCE:
PATENT ASSIGNEE(S):
SOURCE:
PATENT TYPE:
LANGUAGE:
PAHILY ACC. NUM. COUNT:
PATENT INFORMATION:

131:73645 CA
Preparation of arylthiazolidinediones as agonists of
peroxisome proliferator activated receptor.
Sahoo, Soumya P.; Tolman, Richard L.; Han, Wei;
Bergmann, Jaffrey, Santini, Conrad; Lombardo, Vicki
R.; Debai, Ranjit; Boueres, Julia K.; Gratale,
Dominick F.
Peroxisome proliferator activated receptor.
Sahoo, Soumya P.; Tolman, Richard L.; Han, Wei;
Bergmann, Jaffrey, Santini, Conrad; Lombardo, Vicki
R.; Debai, Ranjit; Boueres, Julia K.; Gratale,
Dominick F.
Patent INFORMATION:
English
TATENT INFORMATION:

DOCUMENT- TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PA	TENT :	NO.			KIN	0	DATE			APPI	ICAT	ION	NO.		D	ATE		
															-			
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		HR.	HU.	ID.	IL.	IN,	IS,	JP.	KG,	KR,	KZ,	LC,	LK,	LR,	LT,	LV,	MD,	
	•	MG,	MK,	MN,	MX,	NO,	NZ,	PL,	RO,	RU,	SG,	SI,	sĸ,	SL,	TJ,	TM,	TR,	
											KG,							
	RW:	GH,	GM,	KE,	LS,	MW,	SD,	SZ,	UG,	Z₩,	AT,	BE,	CH,	CY,	DE,	DK,	ES,	
											PT,		BF,	ΒJ,	CF,	CG,	CI,	
		CM,	GA,	GN,	G₩,	ML,	MR,	NE,	SN,	TD,	TG							
US	6008	237			A		1999	1228		US 1	1998-	2135	42		1	9981	217	<
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	R:							FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	PT,	ΙE,	
		SI,	LT,	LV,	FI,	RO												
TR	2000	0175	3		T2		2000	1121		TR 2	2000-	2000	0175	3	1	9981	218	
JP JP ZA NO BG PRIORIT	2001	5262	78		T2		2001	1218		JP 2	2000-	5254	02		1	9981	218	
JP	3373	198			B2		2003	0204										
ZA	9903	232			Α		1999	1111		ZA :	1999-	3232			1	9990	511	<
NO	2000	0031	12		Α		2000	0818		NO 2	2000-	3112			2	0000	616	
BG	1046	02			Α		2001	0131		BG 2	2000-	1046	02		. 2	0000	713	
PRIORIT	Y APP	LN.	info	.:						US :	1997-	6827	112		P 1	99/1	219	
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										US :	1998-	1052	38P		P 1	9981	022	
										WO :	1998-	US27	139		w 1	9981	218	
OTHER S	OURCE	(S):			MAR	PAT	131:	7364	5									
GI																		

Arlych2 (CH2) nCH2XAr2

Title compds. [I] Arl = (substituted) arylene, heteroarylene; Ar2 = o-substituted aryl, heteroaryl; X, Y = O, S, imino, CH2; Z = O, S; n = O-3], were prepared for treatment of of diabetes, hyperglycemia, hyperglycemia, atherosclerosis, obesity, vascular restenosis, etc. (no data). Thus, Me 4-hydroxyphenylacetate, Br(CH2)3Br, and K2CO3 were

L12 ANSWER 4 OF 41 CA COPYRIGHT 2005 ACS on STN (Continued)

REFERENCE COUNT:

THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 5 OF 41 CA COPYRIGHT 2005 ACS on STN (Continued) stirred overnight in DMF to give Me 4-(3-bromophenoxy)phenylacetate. This was stirred with 4-phenoxy-2-propyl-phenol and C32CO3 in DMF at 40° overnight to give Me 4-[3-(2-propyl-4-phenoxypbenoxy)propoxy)phenylacetate. The latter was added to a mixt. of LiN(SiMe3) 2 and Me3SiCl in THF at -78°; after 2 h N-bromosuccintmide was added and the mixt. was stirred overnight at room temp. to give the 4-bromo deriv. which was stirred overnight at room temp. to give the 4-bromo deriv., which h to give 5-[4-[3-(2-propyl-4-phenoxyphenoxy)propoxy]phenyl]-2,4-thiszolidinedione. 228577-39-7P

228577-39-7P
RL: BAC (Bidlogical activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn of arylthiazolidihadione derivs. as peroxisome proliferator activated receptor agonists)
228577-39-7 CA
Benzenesulfonamide, N-[4-[4-[3-[4-(2,4-dioxo-5-thiazolidinyl]phenoxy]propoxy]-3-propylphenoxy]phenyl]-4-methyl- (9CI) (CA INDEX NAME)

PAGE 1-A

L12 ANSWER 5 OF 41 CA COPYRIGHT 2005 ACS on STN (Continued)

PAGE 2-A

1

REFERENCE COUNT:

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 7 OF 41 CA COPYRIGHT 2005 ACS on STN
ACCESSION.NUMBER: 130:223060 CA
TITLE: Parparation of pentafluorobenzenesulfonamides for treating atherosclerosis and hypercholesterolemia Hedina, Julio Cesar; Clark, David Louis; Flygare, John A.; Rosen, Terry J.; Shan, Bei Tularik Inc., USA
SOURCE: USAXXAH
DOCUMENT TYPE: LANGUAGE: CODEN: USAXXAH
PATENT INFORMATION: 2

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PA	TENT NO.			KIN	D	DATE	;		APPI	ICAT	ION	NO.		D	ATE		
					-												
	5880151			A			0309			997-					9970		<
EP	1334719			A2		2003	0813		EP 2	:003-	9125			1	9970	222	
EP	1334719			A3		2003	0924										
	R: AT	BE,	CH,	DE,	DK	, ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	
	IE,	FI															
PT	896533			т		2004	0227		PT 1	997-	9078	43		1	9970	222	
ES	2205183			Т3		2004	0501		ES 1	997-	9078	43		1	9970	222	
	6121304			A		2000	0919	1	JS 1	999-	2272	16		1	9990	106	
US	6316484			B1		2001	1113		US 2	000-	6337	40		2	0000	807	
US	2002143	36		A1		2002	1003		JS 2	001-	9727	43		2	0011	005	
PRIORIT	Y APPLN.	INFO	. :					1	US 1	996-	6054	31	E	2 1	9960	222	
									EP 1	997-	9078	43	,	3 1	9970	222	
								1	US 1	997-	8968	27	,	1 1	9970	718	
								1	US 1	999-	2272	16	7	1 1	9990	106	
								,	US 2	000-	6337	40	,	1 2	0000	807	
OTHER S	OURCE (S)	:		MARI	PAT	130:	2230	60	-								

AB The title compds. (I; Y = SO, SO2; Z = NRIR2 (wherein R1 = H, (un) substituted C1-10 alkyl, C3-6 alkenyl, C2-6 heteroalkyl; R2 = (un) substituted Ph)l, useful as pharmacol. agents in the treatment of disease states, particularly atherosclerosis, pancreatitis, hypercholesterolemia, and hyperlipoproteinemia or as lead compds. for the development of such agents, were prepared Thus, reaction of N,N-dimethyl-1,4-phenyldiamine. ZMCL with pentafluorophenylsulfonyl chloride in pyridine afforded 63% I (Y = SO2) Z = 4-(Me2N)CGMANH) which showed ECDMAK of 0.5 µM for their ability to increase LDL receptor expression in Hep G2 cells.

17 195534-14-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study), unclassified), SFN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PRFP (Preparation); USS (Uses) (preparation of pentafluorobenzenesulfonamides for treating atherosclerosis

L12 ANSWER 6 OF 41 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

130:332470 CA

130:332470 CA

Pyrimidine derivatives modulate expression
of key cell surface molecules on immunocytes: evidence
for a systemic immunopotentiatory effect

AUTHOR(S):

Tsibul'kin, A. P.; Slabnov, Yu. D.; Pozdeev, O. K.;
Cherepnev, G. V., Garaev, R. S.; Istanov, Kh. I.

CORPORATE SOURCE:
Kazan. Gos. Med. Akad., Kazan, Russia
Immunologiya (Moscow) (1998), (4), 29-33
CODEN: IMMUNDA; ISSN: 0206-4952

PUBLISHER:
Heditaina
DOCUMENT TYPE:
Journal
ALMCUAGE:
Russian
AB Pyrimidine derivs. xymedone and diuciphone, tested in a set of
immunodeficiency models in vitro (10-3 M) and in vivo (30 mg/kg),
upregulated ER expression on lymphocytes and PcyR/C3bR expression on
antigen-presenting cells. These were accompanied by restoration of T-cell
immune response as proved by delayed-type hypersensitivity reaction and an
increase in antibody producers to SRBC. Mechanisms of a systemic
immunopotentiatory effect of pyrimidine derivs. are discussed.

1T 34941-71-4, Diuciphone
RL BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
(Uses)
(pyrimidine derivs. modulate expression of key cell surface
mols. on immunocytes: systemic immunostimulatory effect)

(Uses)
(pyrimidine derivs. modulate expression of key cell surface mols. on immunocytes: systemic immunostimulatory effect)
34941-71-4 CA
S-Pyrimidinesulfonamide, N,N'-(sulfonyldi-4,1-phenylene)bis[1,2,3,4-tetrahydro-6-methyl-2,4-dioxo- (9CI) (CA INDEX NAME)

L12 ANSWER 7 OF 41 CA COPYRIGHT 2005 ACS on STN (Continued)
and hypercholesterolemia)
RN 195534-14-6 CA
CN Benzensulfonamide, 2,3,4,5,6-pentafluoro-N-(4-phenoxyphenyl)- (9CI) (CA
INDEX NAME)

REFERENCE COUNT:

12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 8 OF 41 CA ACCESSION NUMBER: TITLE:

CORPORATE SOURCE: SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE: AB The mol. :

ANSWER 8 OF 41 CA COPYRIGHT 2005 ACS on STN

130:29309 CA

LE: Identification and monitoring of the quality of diucifone and its intermediate by 1H NMR method

Vishnevskii, O. V., Volovenko, Yu. M., Kudryavtsev, A.

A., Ovrutskii, V. M.

PORATE SOURCE: Khimko-Parmatsevticheskii Zhurnal (1998),
32(8), 55-56

CODEN: RHYZANN ISSN: 0023-1134

LISHER: Journal

BUNGE: Journal

SUNGE: JOURNAL

JOURNAL

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COPYRIGHT 2005 ACS on STN (Contin CA 1998-2281929 W0 1998-EP716 US 1999-367456

A3 19980210 W 19997

MARPAT 129:202764

RIADEGLR (R1 = aryl, quinolyl, isoquinolyl, etc., A; E = bond, alkylene; D = 0, S, SO, SO2, imino; G = (substituted) (hetero)arylene; L = 0, NH, N(OH)SO2, NHSO, NHSO2, etc., R = (substituted) alkyl, alkenyl, alkynyl, aryl, heterocyclyl, morpholinyl, cycloalkyl, etc.], were prepared Thus, title compound (1) showed ICSO = 0.9 nM/L in a rat CB1 receptor luciferase

screen.

212187-61-69
RI. BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); TRU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of arylsulfonamides and related compds. as CB1 and CB2

receptor

agonists) 212187-61-6 CA

Zizir-61-6 CA Benzenesulfonamide, N-[4-(1-naphthalenyloxy)phenyl]- (9CI) (CA INDEX NAME)

COPYRIGHT 2005 ACS on STN
129:202764 CA
Preparation of arylsulfonamides and related compounds
as cannabinoid CB1 and CB2 receptor agonists.
Mittendorf, Joachim Dressel, Juergen Matzke,
Michael; Keldenich, Joerg; Mohrs, Klaus-Helmut;
Raddatz, Siegried, Franz, Juergens Spreyer, Peter;
Voehringer, Verena; Schuhmacher, Joachim; Rock,
Michael-Harold; Horvath, Ervin; Friedel, Arno; Mauler,
Frank; De Vry, Jean; Jork, Reinhard
Bayer A.-G., Germany
Ger, Offen., 194 pp.
CODEN: GOXXEX
Patent
German
1 L12 ANSWER 9 OF 41 CA ACCESSION NUMBER: TITLE: INVENTOR (S): XIND DATE APPLICATION NO.

A40785 A1 19980827 DE 1997-19740785 11

A281829 AA 19980827 CA 1998-2281929 19

CA 2470183 AA 19980827 CA 1998-22871929 19

W. S. AL, AM, AT, AU, AZ, BA, EB, BG, ER, EY, CA, CH, CN, CU, CI, DK, EE, ES, FI, GB, GE, GH, GH, GW, HU, ID, IL, IS, JF, KE, KE, KZ, LC, LK, LK, LS, LI, LU, LV, MD, MG, MK, MN, MN, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SI, TJ, TH, TR, UA, UG, US, UZ, VM, VU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, CK, GA, GN, ML, MR, NE, SN, TD, TG

AU 9863965 A1 1998099 AU 1998-63965 19980210

EP 966436 A1 19991299 EP 1998-909427 19980210

EF 966436 A1 19991299 EP 1998-909427 19980210

ER S66436 A1 19991299 EP 1998-909427 19980210

ER S7, FI, FI

TR 9902012 T2 200010715

ER S7, FI, FI

TR 9902012 T2 20000121 TR 1999-9902012 19980210

ER 9807848 A 20000321 ER 1998-5365215 19980210

AT 229502 E 20021215 AT 1998-909427 19980210

ER 9866436 T 20000321 ER 1998-536215 19980210

AT 229502 E 20021215 AT 1998-909427 19980210

TV 527343 B 20030411 TV 1998-8190427 19980210

TV 527343 B 20030411 TV 1998-9120092

ES 2189142 T3 20030701 ES 1998-909427 19980210

TV 527343 B 20030411 TV 1998-8190427 19980210

TV 527343 B 20030610 BG 10°

NO 9904014 A 19991012 MC

NO 314141 B1 20003023

KX 9907687 A 2000055 US 620005 US 620005 US 62002072529 A1 US 6625112 B1 20072072529 A1 US 6625112 B1 20072073278 B2

PRITTY APPIN. INFO.: 19970917 <-19980210 <-19980210 <-19980210 <-CU, CZ, DE,
JP, KE, KG,
HM, MW, HX,
TM, TR, TT,
RU, TJ, TM
BUK, ES, FI,
CG, CI, CM, 19980210 <--19980210 <--19980210 19980210 19980210 19980210 19980210 19980210 19980210 19980210 19980219 19980219 19990810 19990819 <--

L12 ANSWER 10 OF 41 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 128:167254 CA
Pentafluorobenzenesulfonamides and analogs useful as antiproliferative agents

INVENTOR(S): Flygare, John; Medina, Julio; Shan, Bei; Clark, David; Rosen, Terry

PATENT ASSIGNEE(S): Tularik, Inc., USA
PCT Int. Appl., 101 pp.

DOCUMENT TYPE: COMEN: PIXXD2
Patent
LANGUAGE: PANILY ACC. NUM. COUNT: 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUI PATENT INFORMA

		ACC. INFOR			NT:	1													
	PA:	ENT :	NO.								APP	LICAT	ION	NO.		1	ATE		
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	WO											1997-							
		w:										, BY,							
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						ΝE,													
	CA	2260	777			AA		1998	0212		CA	1997-	2260	777			9970	718	<
											λU	1997-	3887	7		1	9970	718	<
	AU	7101	73			B2		1999	0916										
	CN	1225	009			A		1999	0804		CN	1997-	1964	27		1	9970	718	<- -
						A1		1999	0908		EΡ	1997-	9361	33		1	9970	718	<
	EP	9396				B1													
		R:				DE,	DK,	ES,	FR,	GB,	GR	, IT,	LI,	LU,	NL,	SE,	MC,	PT,	
				FI															
		9710				A		2000			BR	1997-	1073	7			9970		
		2000						2000			JP	1998-	5079	37		1	9970	718	
		3421				B2		2003											
		6482						2002			US	1997-	8962	80		1	19970	718	
		2492										1997-							
		9396						2004				1997-							
		2201										1997-							
		2000										1998-							
		1021				λ1					НX	2000-	1006	62		- 2	20000	203	
		2003				A1		2003	0828		US	2002-	2702	59		- 2	20021	011	
RIOI	RIT	Y APP	LN.	INFO	.:						US	1996-	2219	8 P		P 1	19960	719	
											US	1997-	8962	80		A1 1	19970	718	
											wo	1997-	US12	720		W 1	19970	718	
THE	R S	OURCE	(5):			MAR	PAT	128:	1672	54									

11

L12 ANSWER 10 OF 41 CA COPYRIGHT 2005 ACS on STN (Continued)
AB The invention provides methods and compns. relating to novel pentafluorophenylsulfonamide derivs. and analogs, and their use as pharmacol. active agents. The compds bond covalently and selectively to Cys-239 of p-tubulin, and thereby disrupt microtubule formation. The compns. find particular use in the treatment of cancer, vascular restences, microbial infections, and psoriasis, or the compds. serve as leads for the development of drugs. The compns. include compds of formula I [Y = S(O) or S(O)27 Z = NRIR2 or OR37 R1, R2 = K, (un) substituted alk(en/yn)yl, alkowy, cycloalk(en)yl, (hetero)aryloxy, etc., R1 and R2 may be joined by a bond, alkylene, or heteroalkylene group; R3 = (un) substituted (hetero)aryl). For example, sulfonamidation of N.N-dimethyl-1,4-phenylenediamine-ZHCl with pentafluorophenylsulfonyl chloride in pyridine gave 63% title compound II. In an assay for inhibition of growth of HeLa cells (human cervical carcinoma) in vitro. II had an ICSO of < 0.05 M.

17 195534-14-69, 1-[(Pentafluorophenyl)sulfonamido]-4-phenoxybenzene RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified) SFN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); DSSS (Uses) (preparation of pentafluorobenzenesulfonamides and enalogs as antiproliferative and chemotherapeutic agents)

RN 18554-14-6 CA.

CN Benzenesulfonamide, 2,3,4,5,6-pentafluoro-N-(4-phenoxyphenyl)- (9CI) (CA Benzenesulfonamide, 2,3,4,5,6-pentafluoro-N-(4-phenoxyphenyl)- (9CI) (CA

REFERENCE COUNT:

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 12 OF 41 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:
123:143447 CA
Preparation of anti-atherosclerotic diaryl compounds
Arrowsmith, Richard James; Dann, John Gordon;
Franzmann, Karl Witold; Hodgson, Simon Teanby; Wates,
PATENT ASSIGNEE(S):
SOURCE:
PATENT ASSIGNEE(S):
PATENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:

123:143447 CA
Preparation of anti-atherosclerotic diaryl compounds
Arrowsmith, Richard James; Dann, John Gordon;
Franzmann, Karl Witold; Hodgson, Simon Teanby; Wates,
Poter John
Wellcome Foundation Ltd., UK
PCT Int. Appl., 60 pp.
CODEN: PIXXD2
Patent INFORMATION:

English
1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

		APPLICATION NO.	DATE
WO 9501326	A1 19950112	WO 1994-GB1409	19940629 <
W: AU, CA, CN,	CZ. FI. GE. HU.	JP, KE, KR, KZ, LV,	W, NO, NZ, PL,
	SK, UA, US, UZ		
		GB, GR, IE, IT, LU,	4C, NL, PT, SE,
		GN, ML, MR, NE, SN,	
CA 2166413	AA 19950112	CA 1994-2166413	19940629 <
AU 9470060	A1 19950124	AU 1994-70060	19940629 <
ZA 9404688	A 19951229	ZA 1994-4688	19940629 <
		EP 1994-918970	
		GB, GR, IE, IT, LI,	
HII 73813	A2 19960930	HU 1995-1813	19940629 <
JP 08512046	T2 19961217	JP 1994-503357	19940629 <
US 5776951	A 19980707	US 1996-564281	19960411 <
US 6043284	A 20000328	US 1998-18936	19980205
PRIORITY APPLN. INFO.:	.,	GB 1993-13459	
		GB 1994-6005	
		WO 1994-GB1409	
OTHER SOURCE(S):	MARPAT 123:1434		
GI			•

Title compds. I (W = H, (substituted)C1-12 hydrocarbyl; X = NRICONR2, NRICO, NRICO2, CONR2, OSCRIZ wherein R1, R2 H, C1-4 alkyl, halo-C1-4 alkyl; Y = bond, C2-4 alkeyl; Nec. C1-4 alkyl; Nec. E-1 bond, C1-4

L12 ANSWER 11 OF 41 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
124:352867 CA
Identification and spectrophotometric determination of
the drug Diutsifon
AUTHOR(S):
AUTHOR(S):
CORPORATE SOURCE:
SOURCE:
PARTAINS (SOURCE:
FARTAINS (SOURCE):
FARTAINS (SOURCE):
FARTAINS (MOSCOW) (1995), 44(6), 15-18
COURSI TYPE:
JOURNANT TYPE:
JOURNANT TYPE:
JOURNANT AND AUTHOR (SOURCE):
AB The authors have developed procedures for identifying Diutsifon which are
based on the functional qual. anal. of the agent from reactions with
N-dimethylaminobenzaldehyde (test for a dimainodiphenylaulfone fragment),
and with sodium nitrite in DMPA medium (test for
hydroxypyrimidinylsulfonic acid residue). The developed procedures have
been used for identification of Diutsifon in powder.

13494-71-4, Diutsifon
RI: ANT (Analyte); ANST (Analytical study)
(identification and spectrophotometric determination of the drug
Diutsifon in pharmaceutical powders)

RN 3494-71-4 CA
N 5-Pyrimidinesulfonamide, N,N'-(sulfonyldi-4,1-phenylene)bis[1,2,3,4tetrahydro-6-methyl-2,4-dioxo-(9CI) (CA INDEX NAME)

L12 ANSWER 12 OF 41 CA COPYRIGHT 2005 ACS on STN (Continued) alkylene, O2C, CO2, SO2NR3, etc. wherein R3 = H, Cl-4 alkyl, halo-Cl-4 alkyl, elso, ring and the state of the sta

165116-82-19
RI: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); TRU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of anti-atherosclerotic diaryl compds.); 165118-82-1 CA Propanamide, N-[2-fluoro-6-[4-[(phenylsulfonyl)amino]phenoxy]phenyl]-2,2-dimethyl- (9CI) (CA INDEX NAME)

L12 ANSWER 13 OF 41 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

TITLE:

Anti-bacterial compositions comprising a substituted bis(4-aminophenyl) sulfone and a dihydrofolic acid reductase

Seydel, Joachim K./ Pieper, Helmuty Kruger, Gerd/
Noll, Klaus/ Keck, Johannes/ Lechner, Uwe

Thomae, Dr. Karl, G.m.b.H., Germany

U.S., 15 pp. Cont.-in-part of U.S. 4,992,430.

CODEN: USXXAM

Patent

DOCUMENT TYPE: Patent English 2

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5084449	λ	19920128	US 1990-623833	19901207 <
DE 3419009	Al	19851128	DE 1984-3419009	19840522 <
US 4829058	A	19890509	US 1987-62291	19870615 <
US 4992430	Α	19910212	US 1989-302158	19890126 <
PRIORITY APPLN. INFO.:			DE 1984-3419009 A	19840522
			US 1985-732024 B	1 19850508
			US 1987-62291 A	3 19870615
			US 1989-302158 A	2 19890126

OTHER SOURCE(S):

MARPAT 117:26077

$$H_2N$$
 So_2 NR^3 NR^3R^2

AB Title sulfones I [R1 - H, alkyl, cycloalkyl; R2 - H, C1-3 alkyl; R3 - cyano, (bis)-C1-3 alkylaminocarbonyl, C3-7-N-cycloalkyl-C1-3 alkylaminocarbonyl, alkylaminocarbonyl, H0, hydroxycarbonyl, halo, F3C, O2N, H2O, etc.; R4 - H, halo, H0, C1-3 alkoxyl or salts thereof, and pharmaceuticals comprising I and optionally cycloguanil or progunil or other dihydrofolic acid reductase inhibitors, are prepared 4-mccEMt802C1 in anhydrous pyridine and 4-acetamido-4-amino-2-chlorodiphenyl sulfone were reacted and kept at ambient temperature for 3 h to give the tosyl

derivative, which with K2CO3 was suspended and reacted with EtI at 90° for 24 h to give has a feer acid hydrolysis, I (RI = RA = H, R2 = Et, R3 = 2-01) (II). In a test for inhibiting 7,8-dihydropteroic acid synthesis of plasmodia, the i50 value of II was 2.10 µM vs. Dapsone and Fansil 12.41 and 200, resp. Pharmaceutical formulations, comprising I alone and with dihydrofolic acid reductase inhibitors, are given.

101513-43-39

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as intermediate for antibacterials)

L12 ANSWER 14 OF 41 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
116:187677 CA
Development of novel antiviral agents on the basis of the inhibition of pathological processes in the infection of target organs
AUTHOR(\$):

CORPORATE SOURCE:
SOURCE:
SOURCE:
Nov. Podkhody Khimioter. Virusn. Infekts. (1991), 146-53. Editor(\$): Kukain, R. A.
Zinatne: Riga, USSR.
CODEN: 575RAH
DOCUMENT TYPE:
CODEN: 575RAH
DOCUMENT TYPE:
CODEN: 575RAH
DOCUMENT TYPE:
CODEN: 575RAH
AB Pulmonary serosol administration of immunostimulants (diutsifon and an unspecified sulfonic acid derivative) to mice infected with influenza A

increased the levels of influenza-sp. IgM in the respiratory tract.
Immunol. aspects of virus infection are discussed and pharmacol.
methods for activating immune defenses in target organs (e.g., the lungs)

methods for activating immune delenses in target organs (e.g., are discussed.
34941-71-4, Diutsifon
RE: BIOL (Biological study)
[immunostimulant and virucidal activity of, after pulmonary administration of aerosol, in influenza A infection)
34941-71-4 CA

34941-71-4 CA
S-Pyrimidinesulfonamide, N,N'-(sulfonyldi-4,1-phenylene)bis[1,2,3,4-tetrahydro-6-mathyl-2,4-dioxo-(9CI) (CA INDEX NAME)

ANSWER 13 OF 41 CA COPYRIGHT 2005 ACS on STN (Continued) 101513-43-3 CA Acetamide, N-[4-[[2-methyl-4-[[(4-methylphenyl)sulfonyl]amino]phenyl]thio]phenyl]- (SCI) (CA INDEX NAME)

L12 ANSWER 15 OF 41 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 115:114130 CA
TITLE: Preparation of biphenyl compounds as drugs
PATENT ASSIGNEE(S): Fujisava Phermaceutical Co., Ltd., Japan
SOURCE: JOCKAF
DOCUMENT TYPE: Patent

Japanese

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE	
				-		
JP 03056431	A2	19910312	JP 1990-167430		19900625	<
PRIORITY APPLN. INFO.:			GB 1989-14660	λ	19890626	
OTHER SOURCE(S):	MARPAT	115:114130				
GT .						

$$R^1$$
 R^2
 R^4
 R^2

Biphenyl compds. [1; A = CH(OH), CH2, CO, COCH(OH), COCO, CONH, O, S, SO, etc.; R1 = halo, NH2, protected NH2, hydrazino, etc.; R2 = halo, (elkyl) amino, protected NH2, hydrazino, etc.; R3 = H, alkyl, halo, cyano, etc.; R4 = H, alkyl; R5, R6 = H, alkyl, halo], useful as analgesics, antiinflammatory agents, etc.; are prepared Stirring a mixture of (4-HZNCGH4) 2CO and MeONH2.HCl in MeOH at room temperature gave 77.0% (4-HZNCGH4) 2CO and MeONH2.HCl in MeOH at room temperature gave 77.0% in mice. Also prepared and tested as analgesics, antirheumatics, and blood platelet promoters were 101 addnl. 1.

RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reaction of, in preparation of biphenyl drugs) 65515-93-7 CA
Acetamide, N-[4-[[4-((4-nitrophenyl) sulfonyl]phenyl]amino]sulfonyl]phenyl]- (9CI) (CA INDEX NAME)

L12 ANSWER 16 OF 41
ACCESSION NUMBER:
TITLE:
Preparation of N-(phenylalkyl) alkans- or
-benzenesulfonamides as pharmaceuticals
Hashimoto, Kinji Inoue, Hakoto; Goto, Kyoto; Kanai,
Kenichi
Otsuka Pharmaceutical Factory, Inc., Japan
Jpn. Kokai Tokkyo Koho, 17 pp.
CODEN: JOXXAF

DOCUMENT TYPE: Patent Japanese 1

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

HO (CH2) n

DATE APPLICATION NO. DATE PATENT NO. KIND JP 02072150 JP 05067619 PRIORITY APPLN. INFO.: OTHER SOURCE(S): GI 19900312 19930927 JP 1988-223880 19880906 <--MARPAT 113:58711

R1so2NH (CH2) m

The title compds. (I; Rl = alkyl, Ph; m,n = 0-6; A = S, NH, bond, SO, SO2, alkylene, NCHO, O, CO; X = H, halo; R2 = H, halo, alkyl, alkoxy, NH2, OH, acylamino, alkoxycarbonyl, COZH; R3 = H, halo, alkyl) useful as antiinflammatories, antirheumatics, antiesthmatics, allergy inhibitors, antipyretics, analysics, antithrombotics, blood platelet aggregation inhibitors, etc. (no data), are prepared Thus, a solution of MeSO2Cl in 12 CH2C12

usa added dropwise under ice-cooling to a mixture of 2-amino-4-(4-methylphenylthio)phenol-HCl (preparation given), pyridine, and CH2Cl2 and

mixture was stirred 2.5 h to give N-[2-hydroxy-5-(4-methylthio)phenyl]methanesulfonamide. A total of 38 I were prepared 12236-64-(6-methylthio)phenyl]methanesulfonamide. A total of 38 I were prepared 12236-64-(6-methylthio)phenyl]methanesulfonamide. A total of 38 I were prepared 12236-64-(6-methylthio)phenyl]methanesulfonamide, SFN (Synthetic preparation), BIOL (Biological study, unclassified), SFN (Synthetic preparation), BIOL (Biological study, PREF (Preparation), as drug) (preparation of, as drug) 128236-64-6 CA Benzenesulfonamide, N-[2-hydroxy-4-(phenylthio)phenyl]- (9CI) (CA INDEX NAME)

L12 ANSWER 17 OF 41 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
111:224808 CA
Studies on 2,3,N,N'-substituted 4,4'diaminodiphenylsulfones as potential antimalarial
agents
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, S.,
Samens, M., Samens, A. K., Rains, R., Chandra, N.,
Samens, M., Samens, A. K., Rains, R., Chandra, N.,
Samens, M., Samens, A. K., Rains, R., Chandra, N.,
Samens, A. K., Rains, R., Chandra, N., Samens, A. K., Rains, R., Chandra, N., Samens, A. K., Rains, R., Chandra, N., Samens, A. K., Rains, R., Chandra, N., Samens, A. K., Rains, R., Chandra, N., Samens, A. K., Rains, R., Chandra, R., L.,

PRODUCTS-38-3 CA
Benzenesulfonamide, N-(4-[(3-methoxy-4-nitrophenyl)thio]phenyl]-4-methyl(9CI) (CA INDEX NAME)

L12 ANSWER 16 OF 41 CA COPYRIGHT 2005 ACS on STN (Continued)

L12 ANSWER 18 OF 41 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
TITLE:
AUTHOR(S): Polarographic determination of diutsifon
Budnikov, G. K.; Karqina, O. Yu.; Lapshina, S. V.
Kazan, Gos. Univ., Kazan, USSR
Khimiko-Parmattsevticheskii Zhurnal (1989),
23(3), 347-9
CODEN: KHFZAN; ISSN: 0023-1134 DOCUMENT TYPE: LANGUAGE: GI

Diutsifon (I) was determined in tablets by a polarog, method. A linear relation between the reduction current and the drug concentration was relation the range 8 + 10-6-10-2M. The method is also suitable for determining methyluracil as an impurity. The electrochem behavior of I is discussed. 38941-71-4, Diutsifon RL: ANST (Analytical study) (determination of impurity and, in tablets, polarog.) 34941-71-4 CA S-Pyrimidinesulfonamide, N,N'-(sulfonyldi-4,1-phenylene)bis[1,2,3,4-tatrahydro-6-methyl-2,4-dioxo- (SCI) (CA INDEX NAME)

L12 ANSWER 19 OF 41
ACCESSION NUMBER:
TITLE:

AUTHOR(S):
CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE:
LANGUAGE:
GI

ACC COPYRIGHT 2005 ACS on STN

110:9187 CA
Interactions between water-soluble polyparacyclophanes and drugs (1). Design and synthesis of water-soluble polyparacyclophanes containing diphenyl ether skeletons
Chun, In Koor Lee, Min Hwa; Kim, Shin Keun
Dep. Pharm., Dongduck Women's Univ., Seoul, 136-130, S. Korea
Yakche Hakhoechi (1988), 18 (2), 89-97
CODEN: YAHAEK, ISSN: 0259-2347
Journal
Korean

DOCUMENT TYPE: LANGUAGE: GI

Water-soluble paracyclophanes (I, n = 3-6) were prepared for developing host compds, which might provide an efficient hydrophobic field. The preparation method consisted of tosylation of 4,4'-diaminodiphenyl ether, alkylation of the resulting tosylates with BF(CHZ)18F (n = 3-6) followed by detosylation with 47% HBr in phenol solution In addition the corresponding acyclic analog (p-HenNECH4)20 was prepared from the above tosylate by alkylation with HeI in the presence of K2CO3 in DMF followed by detosylation with 47% HBr in phenol. 117964-11-1P
RL: RCT (Reactant); SFN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and alkylation of) 117964-11-1 CA
Benzensulfonamide, N,N'-(oxydi-4,1-phenylene)bis[4-methyl- (9CI) (CA INDEX NAME)

L12 ANSWER 20 OF 41
ACCESSION NUMBER:

109:110271 CA
Substituted N-phenylsulfonamides, their preparation, pharmaceuticals containing them, and their use as enzymatic reaction and thrombocyte aggregation inhibitors

Mohrs, Klausy Perzborn, Elisabeth; Seuter, Friedel; Fruchtmann, Romanis; Kohlsdorfer, Christian
Bayer A.-G., Fed. Rep. Ger.

Ger. Offen., 52 pp.
COLDEN TYPE:
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:

COEMS GWXEX

German

German

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE	
					10060004	
	A1	19880331			19860924	
EP 261539	A2	19880330	EP 1987-113393		19870914	<
EP 261539	A3	19881019				
EP 261539	B1 ·	19910306	,			
R: AT, BE, CH,	DE, ES.	, FR, GB,	IT, LI, NL, SE			
AT 61357	E		AT 1987-113393		19870914	<
JP 63093765	A2	19880425	JP 1987-237563		19870924	<
US 5093340	A	19920303	US 1990-587594		19900924	<
US 5070096	A	19911203	US 1990-614329		19901115	<
US 5202336	À	19930413	US 1991-729020		19910712	<
PRIORITY APPLN. INFO.:			DE 1986-3632329	λ	19860924	
			US 1987-94239	В1	19870908	
			EP 1987-113393	A	19870914	
			US 1989-294958	B2	19890106	
			US 1989-402934	B1	19890905	
			US 1990-587594		19900924	
			US 1990-614329			
COURT COURCE (C) -	CACDEA	~T 100.11	0271; MARPAT 109:110271	72	19901113	
OTHER SOURCE(S):	CASKEA	C1 109:11	12/11 NAMENT 109:1102/1			

The title compds. I [Rl = (un)substituted pyridyl, quinolyl, or isoquinolyl, R2 = H, cyano, NO2, halo, (halo)alkyl, (halo)alkoxy, alkoxycarbonyl, R3 = (un)substituted aryl, C6F5, (un)substituted (cyclo)alkyl, X = O, AB, BA; A = O, NNe, CH2CH2MHe; B = CH2, CEHe; R1 = pyridyl when X = O] and their salts, useful as lipoxygenase inhibitors, thrombocyte aggregation inhibitors, inflammation inhibitors, and enzymic reaction inhibitors, were prepared 8-Hydroxyquinoline and X2CO3 in DHF was treated with 2H-CFCH4NO2 in DHF 15 h at 25 to give 82% 8-(2-nitrophenoxy)quinoline with reacted with N2H. H2O in refluxing MeGH containing 10% Pd/C in 2 h to give 69% 8-(2-aminophenoxy)quinoline. This AB

11

L12 ANSWER 19 OF 41 CA COPYRIGHT 2005 ACS on STN (Continued)

L12 ANSWER 20 OF 41 CA COPYRIGHT 2005 ACS on STN (Continued) acylated with 4-ClCGH4502Cl in CH2Cl2 at 25', after 1 h pyridine was added and the mixt. stirred 15 h at 25' to give 94% sulfonamide II. Thrombocyte aggregation inhibition occurred at a limiting concn. of 0.3-0.1 µg/mL II. N-[4-(4-Methyl-8-quinolinyl) phenyl]-4-chlorobenzenesulfonamide, at 2 ng/ear topically, gave 58% inhibition of mouse ear inflammation. N-[4-(7-Quinolinyloxy) phenyl]-4-fluorobenzenesulfonamide had 1c50 of 3.3 + 10-8 g/mL for lipoxyganaee inhibition.

IT 18233-12-49

116233-12-49
RE: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as pharmaceutical)
116253-12-4 CA
BEDZENERUHIOnamide, 4-fluoro-N-[4-(7-quinolinyloxy)phenyl]- (9CI) (CA INDEX NAME)

L12 ANSWER 21 OF 41 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
TITLE:

INVENTOR(5):

PATENT ASSIGNEE(5):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
FAITH INFORMATION:
TITLE:

107:197776 CA
Preparation of aminophenol derivatives as anticoagulants, analgesics, hypotensives, and diuretics
Kaniai, Kenichi, Goto, Kyoto; Hashimoto, Kinji; Tsuda, Yoshiaki
Otsuka Pharmaceutical Factory, Inc., Japan
JOCAMP
JOCAMP
JOCAMP
JOCAMP
JOCAMP
JOCAMP
JAPANEN INFORMATION:
1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62108859	A2	19870520	JP 1985-250197	19851107 <
JP 04025947	B4	19920506		
PRIORITY APPLN. INFO.:			JP 1985-250197	19851107
GT				

The title compds. [I; Rl = H, alkyl, (Ph)alkyl, alkylcarbonyl, Ph- or alkylsulfonyl, benzoyl, (benzoyl) aminothiocarbonyl, (substituted) thiazolyl; R2 = alkyl, Ph(alkyl); R3 = alkyl, (Ph)alkyl, carboxyalkyl], useful as antiinflammatories, antiallergics, antirheumatics, analgesics, diuretics, anticoagulants, and hypotensives (no data), are prepared Nitration of 10 g 2,4 - (Fh5) (McO) CGHJOMe gave 9.5 g 2,4,5 - (OZN) (MeO) (PhS) CGHZOMe, which (6 g) was treated with BBr3 at -20 to afford 5 g 2,4,5 - (OZN) (MeO) (PhS) CGHZOM. The nitrophenol (1.6 g) was reduced to give 1.3 g I (Rl = H, R2 = Ph, R3 = Me) isolated as its HCl salt. salt. 110624-62-9P

110624-62-9P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); BIOL (Biological study); PREF (Preparation) (preparation of, as drug)
110624-62-9 CA
Benzenesulfonamide, N-[2-hydroxy-5-methoxy-4-(phenylthio)phenyl]- (9CI)
(CA INDEX NAME)

L12 ANSWER 22 OF 41 CA COPYRIGHT 2005 ACS ON STN

ACCESSION NUMBER: 104:166:125 CA Substituted bis(4-aminophenyl) sulfones and their therapeutic use Seydel, Joachim K.; Pieper, Helmut; Krueger, Gerd; Noll, Klaus; Keck, Johannes; Lechner, Uwe Thomae, Dr. Karl, G.m.b.H., Fed. Rep. Ger. Offen., 52 pp.

DOCUMENT TYPE: Patent LANGUAGE: Patent German

FAMILY ACC. NUM. COUNT: PATENT INFORMATION: 2

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

		TENT NO.					DATE	APP	LICATI	ON NO.		DATE	
	DΕ	3419009			A1		19851128	DE	1984-3	419009		19840522	<
	ÉР	165422			A1		19851227	EP	1985-1	05478		19850506	<
	EP	165422			B1		19880309						
		R: AT.	BE.	CH,	DE.	FR.	GB, IT,	LI, LU	J, NL,	SE			
								AT	1985-1	05478		19850506	<
	CA	32888 1315287			A1		19930330	CA		81752			
	DK	8502232			Α		19851123 19851126	DK	1985-2	232		19850520	<
	FI	8501996			A		19851126	FI	1985-1	996		19850520	<
	ES	543282			A1		19860601	ES	1985-9	43282		19850520	<
	IL	75238			A1		19890228	IL	1985-7	43282 75238		19850520	<
	MA	9502026					10851125	NΩ	1985-2	2026		19850521	<
	NO	160995			В		19890313 19890621 19851217						
	NO	160995			C		19890621						
	JP	60255760			A2		19851217	JP	1985-1	109199		19850521	<
	JP	05037420			B4		19930603						
	2A	8503821			A		19870128	ZA	1985-3	821		19850521	<
	ΑU	8542768			A1		19851128	ΑU	1985-4	12768		19850522	<
	ΑU	572660			B2		19880512						
	ES	551832					19870101			51832			
	ES	551833			A1		19870101			51833			
	ES	551834			A1		19870101			551834			
	US	4829058			Α		19890509			52291			
	US	4992430			Α		19910212	US	1989-3	302158		19890126	<
	US	5084449			A		19920128	US	1990-6	523833		19901207	<
RIOF	IT	APPLN.	INFO.	:				DE	1984-3	523833 3419009	A	19840522	
								EP	1985-1	105478	A	19850506	
										732024		19850508	
								US	1987-6	52291	A3	19870615	
								US	1989-3	302158	A2	19890126	

$$H_2N$$
 \longrightarrow SO_2 \longrightarrow R^1 \longrightarrow R

PR

GΙ

The title compds. I (R = NH2, alkylamino, dialkylamino; R1 = cyano,

L12 ANSWER 21 OF 41 CA COPYRIGHT 2005 ACS on STN (Continued)

ANSWER 22 OF 41 CA COPYRIGHT 2005 ACS on STN (Continued) alkylaminocarbonyl, alkylamino, hydroxyalkyl, etc., R2 = H, halo, OH, alkoxy, etc.) are prepd. by several methods as drugs for the treatment of malaria and leprosy (formulations given). Thus, I (R = NHMe, R1 = 2-Me, R2 = H) (II) was prepd. by refluxing 4' -acetamino-2-methyl-4-(N-methyltoxylamino) diphenyl sulfone (prepd. by methylation of the 4-toxylamino deriv. with MeI) with HBF in the presence of PhOH. II inhibited synthesis of 7,8-dihydropteroic acid by Plasmodium berghei in vitro.

IT

Vitro.
101513-49-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(isopropylation of)
101513-49-9 CA
Benzenesulfonamide, N-[4-(4-aminophenyl)sulfonyl)-3-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)

L12 ANSWER 23 OF 41
ACCESSION NUMBER:
TITLE:

ACCESSION NUMBER:
ACCESSION NUMBER

DOCUMENT TYPE: LANGUAGE: GI

The efficacy of therapy of degenerative tuberculosis of the lungs with chemotherapeutic drugs in combination with immunostimulants was studied on the basis of morphol. investigations on rabbits. It was shown that the use of levamisole (I) [14769-73-4] and diutsifon (II) [13481-71-4] in addition to antibacterial drugs at the phase of disease stabilization promoted heating of the degenerative tuberculosis by converting the caverns into cyst-like cavities, formation of tuberculomas, encapsulated caseous foci, and calcinates. Lymphocytes, macrophages and polynuclear cells actively participated in the reparative reactions. Diutsifon was capable of correcting the adverse effects of predmisolone on extended destructive tuberculosis by preventing rapid progress of the disease.

34941-71-4
RL: BIOL (Biological study) IT

34941-71-4
RL: BIOL (Biological study)
(tuberculostatic activity of antibiotics and)
34941-71-4 CA
5-Pyrindinesulfonamide, N,N'-(sulfonyldi-4,1-phenylene)bis[1,2,3,4-tetrahydro-6-methyl-2,4-dioxo- (9CI) (CA INDEX NAME)

L12 ANSWER 24 OF 41 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

FITTLE:

AUTHOR(S):

CORPORATE SOURCE:

SOURCE:

Determination of surfactant concentration needed for wetting of hydrophobic drugs by critical wetting concentrations

Bondarenko, A. I.

Beloruss. Inst. Usoversh. Vrachei, Minsk, USSR

Farmatsiya (Moscow, Russian Federation) (1983), 32(1), 29-31

CODEN: FRHTAL! ISSN: 0367-3014

CODEN: FRMTAL, ISSN: 0367-3014

DOCUMENT TYPE: Journal

LANGUAGE: Russian

AB The wettability of Tween 80 [9005-65-6] varied with the type of pharmaceutical and the time of wetting (in min) vs. the surfactant concentration and was represented by a hyperbolic curve. For hydrophilization of diutsifon [34941-71-4] and salazodimethoxine [40016-88-4] the vetting concentration of Tween 80 was .apprx.0.044 and .apprx.0.05%, resp., whereas for other sulfonamides the concentration of the surfactant required for

34941-71-4 CA 5-Pyrimidinesulfonamide, N,N'-(sulfonyldi-4,1-phenylene)bis[1,2,3,4-tetrahydro-6-methyl-2,4-dioxo- (9CI) (CA INDEX NAME)

L12 ANSWER 23 OF 41 CA COPYRIGHT 2005 ACS on STN (Continued)

L12 ANSWER 25 OF 41 CA COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 92:41976 CA

TITLE:

SOURCE:

COPYRIGHT 2005 ACS on STN

92:41976 CA
Pharmaceutical composition based on
bis[p-(2,4-dioxo-6-methylpyrimidinyl-5sulfonamido)phenyl] sulfone for treating rheumatoid
collagenosis
Goloshchapov, N. M.; Sigidin, Ya. A.; Tsvetkova, E.
S.; Bilich, I. L.; Reznik, V. S.; Pashkurov, N. G.;
Zaika, G. F.; Muslinkin, A. A.
Pirogov, N. I., Moscow State Medical Institute, USSR;
Arbuzov, A. E.; Institute of Organic and Physical
Chemistry
Fr. Demande, 10 pp.
CODEN: FRIXBL
Patent
French
1

INVENTOR(S):

PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND

DATE FR 2408348 FR 2408348 PRIORITY APPLN. INFO.: A1 B1 19790608 19800627 APPLICATION NO. DATE 19771024 <--FR 1977-31896

FR 1977-31896 A 19771024

The title compound (I) was prepared by treating 6-methyluracil with ClSO2H

treating the 5-sulfonyl chloride with (4-H2NC6H4)2502. I decreases early morning stiffness and pain due to arthritis. 34941-71-4P
RL: SPN (Synthetic preparation), PREP (Preparation) (preparation and use of, in arthritis treatment). 34941-71-4 CA
5-Pyrimidinesulfonamide, N,N'-(sulfonyldi-4,1-phenylene)bis[1,2,3,4-tetrahydro-6-methyl-2,4-dioxo-(9CI) (CA INDEX NAME)

L12 ANSWER 26 OF 41 CA COPYRIGHT 2005 ACS on STN

91:44522 CA Hedicinal preparation for the treatment of collagenoses of a rheumatoid nature Goloshchapov, N. H., Sigidin, Ya. A., Tsvetkova, E. S., Bilich, I. L., Reznik, V. S., Pashkurov, N. G., Zaika, G. F., Muslinkin, A. A.

PATENT ASSIGNEE(S): USSR U.S., 4 pp.
CODEN: USXXAM
PATENT TYPE: LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

DATE PATENT NO. KIND APPLICATION NO. DATE US 4151281 PRIORITY APPLN. INFO.: US 1977-843818 US 1977-843818 19771020 <--19790424

Pharmaceuticals containing I [34941-71-4] are used for the treatment of various collagenoses, such as rheumatoid arthritis, systemic scleroderma, etc. I exhibits low toxicity (LD50 2600 mg/kg intragastrally to mice) and low side effects. In clin. tests 59 out of 69 patients exhibited abatement of the severity and duration of morning torpidity after oral administration of 0.1-0.2 g doses of I. The pain syndrome tangibly abated towards the end of the 1st wk of treatment and in 51 patients it disappeared on the 10th-12th day. I was prepared by chlorosulfonation of 6-methyluracil [626-68-2] and treatment of 6-methyluracil [620-68-9] with (4-HZNCGH4)2SO2 [80-08-0].
34941-71-4P ΙT

RL: PREP (Freparation) (preparation of, for collagen disease and arthritis treatment) 34941-71-4 CA

5-Pyrimidinesulfonamide, N,N'-(sulfonyldi-4,1-phenylene)bis[1,2,3,4-tetrahydro-6-methyl-2,4-dioxo-(9CI) (CA INDEX NAME)

L12 ANSWER 27 OF 41 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
BINVENTOR(S):

S.) Pashkurov, N. G.; Muslinkin, A. A.; Borisova, E.

PATENT ASSIGNEE(S):

N, Ashkulov Clinic, USSR, Arbuzov, A. E., Institute of Organic and Physical Chemistry U.S.S.R. From Okrytiya, Izobret., Prom. Obraztsy, Tovarnye Zhaki 1975, 52(5), 14-15.
CODEN: URXMAF Patent Russian 1 SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

KIND T DATE APPLICATION NO. DATE FALSH NO. RIND DATE REPLICATION NO. DATE

SU 459228 T 19750205 SU 1971-1670131 1971076

FRIORITY APPIN. INFO.: SU 1971-1670131 A 1971076

For diagram(s), see printed CA Issue.
AB P.p.*-bis[(2,4-dihydroxy-6-methyl-5-pyrimidinyl) sulfonamino]diphenyl sulfone (I) [34941-71-4] is used for treatment of leprosy.

RL: BIOL (Biological study) (leprosy treatment with)

RN 34941-71-4 CA

CN 5-Pyrimidinesulfonamide, N,N'-(sulfonyldi-4,1-phenylene)bis[1,2,3,4-tetrahydro-6-methyl-2,4-dioxo-(9CI) (CA INDEX NAME) 19710701 <--

L12 ANSWER 26 OF 41 CA COPYRIGHT 2005 ACS on STN (Continued)

L12 ANSWER 28 OF 41 CA COPYRIGHT 2005 ACS ON STN
ACCESSION NUMBER:
80:103767 CA
Synthesis of new substituted N-(βhydroxyethyl)anilines and their
pharmacological properties
AUTHOR(S):
Hassarani, E. Nardi, D.: Tajana, A. Palmeri, C.
DIV. Ric., Rocardati S.a.S., Milan, Italy
BOCHMENT TYPE:

DOCUMENT TYPE:

4 CODEN: BCFAAI; ISSN: 0006-6648
LOURGE

DOCUMENT TYPE:

CODEN: BCFAAI; ISSN: 0006-6648

MENT TYPE: Journal

Italian

Fifteen title compds. (I; R = H, Cl, Ph, PhCH2CH2, PhO, PhS, PhCH2S, MeS, or cyclohexylthio; Rl = H or Et) were synthesized and tested pharmacol. All I had sedative action in mice at subtoxic doses. Anticonvulsant activity was shown only by 4 -{phenylthio}-N-(2-hydroxyethyl) aniline (I; R = 4-PhS; Rl = H; II) [51026-08-5] and 4-(phenylthio)-N-(1-ethyl-2-hydroxyethyl) aniline (I; R = 4-PhS; Rl = H; II) [51026-09-6]. With respect to selective antibacterial action in vitro, none of the compds. had greater activity than that previously found for II. All I in which Rl = H had antiinflammatory activity at 100-200 mg/kg against formalin-induced edema in the rat paw, whereas of the compds. in which Rl = Et, only III had such activity. Various routes for the synthesis of I are described, the most satisfactory of which was incition.

the synthesis of 1 are described, the most Satisfactory of which was cition of the corresponding Et N-phenylglycinates with LiAlH4; the Et N-phenylglycinates were prepared by condensing the appropriate substituted aniline with BrcH2CO2Et (for I; R = H) or with EtBrcHCO2Et (for I; R = Et).

Et).
51170-33-3P
RL: SPN (Synthetic preparation), PREP (Preparation)
(preparation of)
51170-33-3 CA
Benzenesulfonamide, 4-methyl-N-(4-phenoxyphenyl)- (9CI) (CA INDEX NAME)

L12 ANSWER 29 OF 41
ACCESSION NUMBER:
76:135483 CA
Analytical studies on antileprous drugs. 6.
Analytical Stud

DOCUMENT TYPE:

GUAGE: Journal
GUAGE: Journal
GUAGE: Japanese
Thin-layer chromatog, is an effective means to sep. and analyze
4,4'-sulfonyidianiline [1] [80-08-0], 4,4'-diaminodiphenyl sulfoxide [II]
[119-59-5], 4,4'-diaminodiphenyl sulfide [III] [139-65-1] and their
mono-N-acetylates, A sample of bunan urine was examined after oral
administration of II. The metabolites identified were III, III
monoacetylates, A sample of bunan urine was examined after oral
administration of II. The metabolites identified were III, III
monoacetylates, Vannoacetylates, and I. When Promin A [44569-22-7]
) was injected i.v. into rabbits, the main metabolites found in the urine
were I and 4,4'-diaminodiphenyl sulfide mono-N-glucosiduronate
[34569-22-8].
34569-22-7
[NL: BPR (Biological procession.

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process) (metabolism of) 34569-22-7 CA

β-D-Glucopyranuronic acid, 1,1'-[sulfonylbis(4,1-phenyleneiminosulfonyl]]bis[1-deoxy-, tetrasodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L12 ANSWER 30 OF 41 CA COPYRIGHT 2005 ACS on STN

L12 ANSWER 30 OF 41 CA COPYRIGHT 2005 ACS ON STN ACCESSION NUMBER: 74:86060 CA

TITLE:

74:85050 CA
Amides and amines with analgesic and antiinflammatory
activity
Artini, D., Buttinoni, A., Dradi, E., Logemann, V.,
Mandelli, V., Helloni, P., Tommasini, R., Tosolini,
G., Vite, G.
Carlo Erbs Ther. Res. Inst., Hilan, Italy
Artneimittel-Forschung (1971), 21(1), 30-6
CODEN: ARZNAD; ISSN: 0004-4172 AUTHOR(S):

CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE:

CODEN: ARZNAD, ISSN: 0004-4172

WIREMT TYPE: Journal

JOACE: English

For diagram(s), see printed CA Issue.

Of the 60 4-amido-benzophenones and 33 4-aminobenzophenones prepared and tested for antiinflammatory activity in the carrageenin test, for analgesic activity in the phenylbenzoquinone test, and for antibradykinin activity and toxicity in mice, 3-methyl-4-(ethoxyacetylamino) benzophenone (I) was the most active with the least toxicity. Its analgesic activity was 5 times that of phenylbutzzone and its antiinflammatory and antibradykinin activities were equal to those of phenylbutzzone. It had oral LD50 values of 1140 and 2280 mg/kg in mice and rats, resp. and oral subacute toxicity (7-day) in rats was 1040 mg/kg. 3-Methyl-4-aminobenzophenone vas the only metabolite found in the urine of rats treated with I. 4-Aminobenzophenone (II) was the most active compound tested, the analgesic and antiinflammatory activities being >7.5- and 2-fold greater than those of phenylbutzzone but its proclivity for producing methemoglobin precludes it for therapeutic use.

4-(Ethoxyacetylamino)benzophenone, 2-methyl-4-(ethoxyamino)benzophenone, and 2-methyl-4-aminobenzophenone, and 2-methyl-4-

HZ02 solution and then selective reduction The amides were obtained by reacting
the primary amine with an acid chloride in the presence of a base.
Secondary amines were synthesized from primary amines by reacting the Na salts of sulfonamides obtained from p-toluenesulfonyl chloride with suitable alkyl halides followed by saponification in concentrated HZS04.

IT 31680-64-5P
RL: SPN (Synthetic preparation); PREF (Preparation)
(preparation of)
RN 31680-64-5 CA
CN p-Toluenesulfono-o-toluidide, 4'-benzoyl- (8CI) (CA INDEX NAME)

L12 ANSWER 31 OF 41
ACCESSION NUMBER:
TITLE:

67:42477 CA
A new method for the manufacture of bin(4-amino-phenyl) sulfone and the antileprosy, antituberculosis, and anti-blotic activities of some new derivatives related to this drug
Sah, Peter P. T.; Peoples, S. Anderson; Kvan, S. T.;
School of Vet. Med., Univ. of California, Davis, CA, USA

USA Arzneimittel-Forschung (1967), 17(4), 425-31 CODEN: ARZNAD; ISSN: 0004-4172 Journal SOURCE:

DOCUMENT TYPE:

MAGE: English
Bis(4-aminophenyl) sulfone was prepared by passing toluene vapor into

entrated
HZSO4 in the presence of P205 at 180° for 24 hrs. to form
4,4°-dimethyldiphenyl sulfone which was isolated, purified, and oxidized
to 4,4°-dicarboxyldiphenyl sulfone with dilute HZSO4 and KZCr2O7 solns.
Esterification of the dicarboxylic acid with absolute MeOH or EtOH yields

dimethyl or diethyl ester which upon amination yields 4,4'-dicarbamoyldiphenyl sulfone which was then degraded to bis(4-aminophenyl) sulfone by the Hofmann degradation. The effectiveness of this compound and 7 related derivs., bis(4-1-sortbamidophenyl) sulfone, bis(4-sulfanilamidophenyl) sulfone, bis(4-sulfanilamidophenyl) sulfone, bis(4-bglucuronolatone hydrazinophenyl) sulfone, plus di-Na bis(4-D-glucuronic acid hydrazonophenyl) sulfone, di-Na bis(4-succinylamidophenyl) sulfone, di-Na bis(4-succinylamidophenyl) sulfone, di-Na bis(4-succinylamidophenyl) sulfone, and bis(4-fpethoxyphenylthicarbamido)phenyl) sulfone against leproxy, tuberculosis, and other microorganisms was reviewed. 57 references.

14.68-07-19

RL SNN (Synthetic preparation), PREP (Preparation)

14168-07-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
14168-07-1 CA
Benzenesulfonamide, N,N'-(sulfonyldi-4,1-phenylene)bis[4-amino-(9CI) (CA
INDEX NAME)

L12 ANSWER 32 OF 41 CA COPYRIGHT 2005 ACS ON STN
ACCESSION NUMBER: 55:27710 CA
S5:27710 CA
S5:5417b-1,518a-b
Esters and ketones related to diphenylacetic acid
Wolff, Manfred E., Owings, Franklin F.
Source: 50URCE: 50URCE: 50URCE: 50URCE: 1235-6 CODEN: JOCEAH, ISSN: 0022-3263
DOCUMENT TYPE: 50URCEH; SSN: 0022-3263

DOCUMENT TYPE: Journal Unavailable

DOCUMENT TYPE: Journal
LANGUAGE:

AB The title compds. were prepared to study their pharmacol.
properties. H2504 (302 ml.), 71 ml. H20, 163 ml. AcOH, and 90.6 g.
(4-02NCGH4) 2CMeCOZMe (Skerrett and Woodcock, CA 47, 1075c) refluxed and
stirred 18 hrs. at 95' gave 714 [4,***(Y)CGH3) 2CACOR' (1) (X = 02N,
Y = H, R = He, R' = OH), m. 175-7' (decomposition) (80% AcOH), converted
by refluxing 1 hr. with excess SOC12 into 63% acid chloride, m.
125-6' (CGH6-petr. ether). [4,***He(02N)CGH3) 2CMeCOZM [Haise, Ber.
15, 1474(1882)] [15 g.] in 300 g. SOC12 heated at 80' until HC1
ceased to evolve and evaporated in vacuo gave 57% I (X = Me, Y = 02N, R =

 $R=Me,\ R=Cl),\ m.\ 89-90^{\circ}$ (hexane). The appropriate acid chloride (1 mole equivalent) in C6H6 (10% solution) treated with 2 mole equivs. of

requisite alc. gave the following I (X, Y, R, R', % yield, m.p. given):

OZN, H, H, OCH2CH2NHa2 (11), 67, 117-19' (decomposition) (Coffepetr.
ether); OZN, H, H, OCH2CH2NH12, 64, - (HCl salt, m. 164-6'
(Me2CO-E12O); OZN, H, H, OEK (111), -, 126-8' (EthH); OZN, H, Me,
OCH2CH2NHa2, - (HCl salt m. 222-3' (decomposition) (MeOH-R12O)); OZN, H,
Me, OCH2CH2NHa12 (Y), -6, - [HCl salt m. 171-2' (iso-PrOH); Me,
OZN, Me, OCH2CHZNEL2 (Y), - [picrate m. 105-7' (EtOH); OZN, H, Me,
OCHMCHINETZ, - (HCl salt m. 185-7' (MeOH-E12O)]. The appropriate
acid chloride (1 mole equivalent) in CH2C12 (10% solution) added dropwise

mole equivs. CH2N2 in CH2Cl2, the solution allowed to stand 18 hrs., stirred with excess 58% aqueous HI, the CH2Cl2 layer separated, washed with H2O,

10% aqueous Na2S2O3, and H2O, dried, and evaporated gave by this procedure 77% I (X = 10^{10} Agree)

Y = H, R = R' = Me), m. 164-6* (95% EtOH), and 81% I(X = R = R' = Me, Y = O2N) (VI), m. 100-1* (NeOH). VI (1 g.) and 0.6 g. NZH4 in 10 ml. warm absolute EtOH treated portionwise with Raney Ni until frothing ceased, cooled, and the filtered solution evaporated gave 26% II (X = R = R'

ceased, cooled, and the filtered solution evaporated gave 26% I (X = R = R' Y = 02N), m. 117-18° (C6H6-petr. ether). II, III, and IV in dioxane [101 solns.) hydrogenated over PtO2 gave 67% I (X = H2N, Y = R = H, R' = OCH2CH2NMe2), m. 130-2° (C6H6-petr. ether), I (X = H2N, Y = R = H, R' = 0EH), 88-9° (C6H6-petr. ether), and 70% I (X = H2N, Y = R = H, R = Ne, R' = OCH2CH2NBE12), oil, resp. V on reduction gave 35% I (X = R = Ne, Y = H2N, R' = OCH2CH2NBE12) HCl salt, m. 195-6° (ECOH-EE20). To 14.0 g. (4-H2NC6H4) 2CHOC9H mono-HCl salt [Heller, Ann 375, 261 [1910]) in 30 ml. 4N aq NaOH was added alternately and dropwise during 30 min. 21.0 g. CLOC2CH2Ph and 30 ml. 4N aqueous NaOH at 5' with stirring, the mixture stirred 2 hrs. and treated with 150 ml. ECOAC and 150 ml. 104 HCl. gave from the organic layer 51% I (X = NHCO2CH2Ph, Y = R = H, R' = OH), m. 159-62°. CSHN (300 ml.), 38.7 g. (4-H2NC6H4) 2CHeAc (VIII) di-HCl salt (VIII) (Allen and Corwin, CA 45, 1080e; Bencze and A., CA 52, 1972f),

L12 ANSWER 33 OF 41 CA COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 49:53663 CA 49:10367c-i,10368a Diphenyl sulfones Pohls, Pauli Behnisch, Robert PATENT ASSIGNEE(S): Farenfabriken Bayer A.-G. PATENT ASSIGNEE (5): DOCUMENT TYPE: Patent Unavailable LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

AB

DATE PATENT NO. KIND

water-soluble salt group), and which possess valuable chemotherapeutical properties are prepared by treating a 4'-aminodiphenyl sulfone derivative

(II) substituted in the 4-position by NO2 or acyl-NH, with the anhydride, monoester, or monohalide of a polybasic soid or with the anhydride, ester, or halide of an acid containing in addition a substituent (III) replaceable

(or convertible to) an acidic group. III is then replaced by (or converted to) the acid radical, and the NO2 or acyl-NH substituent in the 4-position, possibly converted to NH2. Alternatively the corresponding di-Ph sulfide or sulfoxide radicals of the resulting condensation products are oxidized to sulfone groups. [In what follows, the compds. 4-(4-RCGH4SO2)CGH4R* are represented by IA (R, R*) with R and R* shown.] A mixture of IA (OZN, NH2) 55.6 g. and succinic anhydride (Y) 20 g. in Me2CO 300 cc. refluxed 7 h. with stirring, then cooled with ice, gives IA (OZN, NHCOCHECCOCCH) (YI), m. 200°, soluble in varm Na2CO3 solution Refluxing VI 62 g. in water 400 cc. containing NAHCO3 14 g. with Fs 300 g., glacial

NHO-LIZERCOCKI (VI), m. 200, SOLUDE IN WARM RESCUS SOLUTION MERICAL VI 62 g. in water 400 cc. containing NARCOS 14 g. with Fe 300 g., glacial 10 cc., and water 500 cc. 5 h. gives IA (HZN, NHCOCHZCHZCOZH) (VII), m. 153°. Similarly are prepared: IA (CZN, NHCOCHCHCCZH) (VIII), m. 220°, from IV and maleic anhydride; VII, by reduction of VIII) who oxidation of the sulficide, m. 173° (butained from 4-(4-02NCGH4S)CGH4NI2 and V); To of the sulfoxide with H202 in AcOH; (IA, MECCHCHZCONH, NHZ) and V; IA (HZNCONH, NHCOCHZCHZCOZH), from IA (HZCOCHM, NHZ) and V; IA (MCCCCHZCOZH), m. 184-5°, from IA (HZCOCHM, NHZ) and V; IA (MCCCCHZCOZH), from IA (HCCCCCHASCOZH), MCCCCHASCOZH), from IA (HZCOCCCHASCOZH), IA (22N, NHCOCCHZCHZCOZH), from IA (HZCOCCCHASCOZH), IA (22N, NHCOCCHASCOZH-3) (XII), by treating IX with 104° alc. NaOH1 IA (CZN, NHCOCCHSCOZH), IX (11), from IV and 3-clozSCGH4COZH water-soluble IA (CZN, NHCOCHZSCOZH), from NaZSO3 and IA (02N, NHCOCCHZSCOZH), from IV and clcHZCOCI); IA (CZN, NHCOCCHZCCHZ), m. 184° (prepared from IV and clcHZCOCI); IA (CZN, NHCOCHZCOZH-2), m. 186°, from IV and 2,6-dimethyl-3,4pyridinedicarboxylic anhydride; IA (CZN, CZN), CZN-CZN-CZ,6-dimethyl-3,4pyridinedicarboxylic anhydride; IA (CZN, NHCOCHZCOZH), from NaZSO3 and IA (ACNH, NHCOCHZCOL)), m. 185°-6° (obtained from IA (ACNH, NHCOCHZCOL)), m. 185°-7°, from XIII and CLCHZCCOCI); IA (ACNH, NHCOCHZCHZCOZH), m. 136-7°, from XIII and SCICZCGH4COZH-3), by saponifying the Me ester, m. 262-3° (Obtained from XIII and 3-clCCCGCH4COZH), m. 136-7°, from XIII and FORM XIII and XIIA (ACNH, NHCOCHCHCOZH), m. 242-3°, from XIII and maleic anhydride; IA (ACNH, NHCOCHCHCOZH), m. 242-3°, from XIII and maleic anhydride; IA (ACNH, NHCOCHSCOH-3), by saponifying XV; IA (HZN, NHCOCHZSO3H), from NaZSO3 and IA (OZN, NHCOCHZCL)

L12 ANSWER 32 OF 41 CA COPYRIGHT 2005 ACS on STN (Continued) and 57.2 g. p-McGGM4SO2CI stirred 45 min. at 27°, the mixt. poured into H20 and extd. with CHCl3 gave 86.6 g. ditosyl deriv. (IX) of VII, m. 75-80°. IX (I mole equiv.) in ECOM (£58 soln.) treated with 3 mole equivs. N NaOH and the appropriate alkyl todide 3 hrs. at 75° gave S9% I (X - NM+02SCGH4M-4, Y = H, R = R' = Me) (X), dimorphic, m. 147-9° (EtCOM) and 170-1° (EtCOM), and 44% I (X - NECOZSCGH4M-4, Y = H, R = R' = Me) (XI), m. 156-7° (EtCOM). X and XI in 2 vols. 80% H2SO4 heated 5 min. at 155-60°, the soln. cooled, poured into H20, and made alk. with 20% aq. NaOH gave 73% I (X = NHMe, Y = H, R = R' = Me), M. 96-7° (EtCOM), resp. VIII (16.4 g.) in 25 mil. 73% aq. HCl and 25 ml. H20 treated dropwise at 0° with 7.2 g. NaNO2 in 15 ml. H20 with stirring, the excess HNO2 neutralized with urea, and the soln. treated with 15.2 g. NaDF# in 30 ml. H20 gave 17.0 g. diazonium fluoborate (XII), m. 133° (decompn.). XII heated with a free yellow flame, the residue dissolved in CHCl3, the soln. washed with 10% aq. NaOH and H20, dried, and fractionated gave 27% I (X = F, Y = H, R = R' = Me), h0.7 133°.

II 5112-04-9, p-Toluenesulfonamilide, 4',4'''-(1-methylacetonylidene)bis- (preparation of)
RN 5112-04-9 CA

L12 ANSWER 33 OF 41 CA COPYRIGHT 2005 ACS on STN (Continued)
with subsequent redn.; IA (H2N, NHCOCGH4SOSH-3), by redn. of XI; IA (H2N, NHSO2CGH4CO2H-3), by redn. of XII; IA (H2N, NHCOCGH4CO2H-2), by redn. of the corresponding nitro compd.

IT 855198-35-5, Benzoic acid, m-[{p-(p-nitrophenylsulfonyl)phenyl}sulfonyl)phenyl

assise-as-s, Benzoic acid, m-[(p-(p-nitropnenyisulronyi)pnenyi]sul famoyl]- (preparation of) 855198-35-5 CA Benzoic acid, m-[(p-(p-nitrophenylsulfonyl)phenyl]sulfamoyl]- (5CI) (CA INDEX NAME)

L12 ANSWER 34 OF 41 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:
46:48425 CA

ORIGINAL REFERENCE NO.
46:48425 CA

SOURGEN ACCESSION NUMBER:
46:48425 CA

ACTION COMMERTER SOURCE:
500FC E

COMPORATE SOURCE:
50

removed, and the product recrystd. from MeOH give 4.6 g. 3,3°-di-cl vative of III, m. 158-60°. Benzidine sulfone (1.2 g.), 2.4 g. II, 50 ml. Me2CO, and I g. NaHCO3 refluxed 12 hrs., filtered, and the product recrystd. from Me2CO give 0.8 g. 4.4°-bis [-N4-acetylsulfanilamido]diphenyl sulfone, m. 268°. 4-Amino-4°-benzamidobiphenyl (1 g.), 0.8 g. II, 0.5 g. NaKCO3, and 40 ml. Me2CO refluxed 3 hrs., filtered, and the product recrystd. from Me2CO give 0.7 g. 4-(N4-acetylsulfanilamido)-4-benzamidobiphenyl, m. 310. p-[2.4-O2N(HZN)-CGH3]CGH4NHAC (1.3 g.), 1.1 g. II, 1 g. NaHCO3, and 40 ml. Me2CO filved 8 hrs., filtered, and the product recrystd. from Me2CO give 1.3 g. 2-nitro-4-(N4-acetytsulfanilamido)-4'-acetamidobiphenyl (VI), m. 273', 4-(p-HZNCGH4SOZNI) analog (VII) of VI, m. 252°. p-[2.4-HZN(AcHN)-CGH3]CGH4NHAC (1.4 g.), 1.2 g. II, 0.5 g. NaHCO3, and 50 ml. Me2CO refluxed 10 hrs., filtered, and the product recrystd. from MeOH give 1.1 g. 2-(N4-acetylsulfanilamido)-4.4'-diacetamidobiphenyl, m. 275°. I (9 g.), 16 g. p-OZNGGHCOCL, 21 g. XZOO3, and 90 ml. ether refluxed 2 hrs., filtered, and the product washed with alc. and Me2CO give 21 g. 4.4'-bis (p-minobenzamido) biphenyl, m. 310°. I (2.4 g.), 8 g. p-BzOCGH4SOZCI in 60 ml. Me2CO and 1.5 g. NaHCO3 refluxed 2 hrs., filtered, and the product recrystd. from Me2CO give 6.3 g. 4.4'-bis (p-benzoxyphenylsulfonamido) biphenyl, m. 230°. I (2.7 g.), 6.6 g. p-BzOCGH4SOZCI in 100 ml. Me2CO, and 2 g. NaHCO3 refluxed 2 hrs. and the product recrystd. from Me2CO give 6.3 g. 4.4'-bis (p-benzoxyphenylsulfonamido) biphenyl, m. 230°. I (2.7 g.) and 4 hrs., filtered, and the product recrystd. from Me2CO give 6.3 g. 4.4'-bis (p-benzoxyphenylsulfonamido) biphenyl, m. 230°. I (2.7 g.) and 8-1 g. 1.4-EtOC10H5SOZCI in 100 ml. Me2CO, and 2 g. NaHCO3 refluxed 2 hrs. and the product recrystd. from MeOH and Me2CO give 5.3 g. 4.4'-bis (p-phenetylsulfonamido) biphenyl, m. 234°. I (2.7 g.) and 8-1 g. 1.4-EtOC10H5SOZCI in 3 similar way give 7.2 g. 4.4'-bis (1-bis (1-bis (1-bis (1-bis (1-bis (1-bis (

L12 ANSWER 35 OF 41 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 41:29770 CA
ORIGINAL REFERENCE NO: 41:5976=1,5977a-i,5978a-d
STUTLE: Studies in chemotherapy. I
BUU-Hoir Royer, Rene; Jouin, J. J.; Lecocq, J.;
Guettier, D.
SOURCE: Bulletin de la Societe Chimique de France (
1947) 128-36
CODEN: BSCFAS; ISSN: 0037-8968
JOURNEY TYPE:

DOCUMENT TYPE:

LANGUAGE: OTHER SOURCE(S):

CODEN: BSCFAS, ISSN: 0037-8968

MENT TYPE: Journal

UNASE: Unavailable

CR SOURCE(S): CASREACT 41:29770

Investigated for their inhibitory effect on tuberculosis bacillus (I) and hemolytic streptococcus (II) and for their general toxicity were various deriva. of dibydrochaulmoogryl alc. (III), PhNHHHZ (IV), homophthalimide, 2,5-dimethylpyrrole, commarin, indophenazine, sulfanilamide, p-toluenesulfonamide, and β-naphthalenesulfonamide. Also the inhibitory action toward I and pneumococcus of the following are given: PhSEL, p-RCGHZ(:NHH)MIZ (R:H, NOZ. NHZ. MES, ELS, PrS), and 2,2'-dihydroxy-5,5'-dichlorobenzil. To 6g. IV in 25 mL. dry xylene was added 3 NaNHZ: Oleyl bromide (15 g.) was added the mixture refluxed 3 h., decanted and dried over K. Distillation gave 5 g. of PhN(NH2)C18H3S, viscous, pale-yellow oil, bls 310-5', bz. 525-70', very soluble in lipides, much less toxic than IV. Similarly a-chloromethylnaphthalene gave PhN(NH2)C18C107-a, very viscous, pale-yellow oil, bls 225-8' (considerable higher-boiling material also was produced, possibly a disubstituted product), gave a crystalline scetylhydrazide with Ac20, much less toxic than IV. Tests on tuberculosis in guines pigs gave no interesting results. Similarly (reaction more difficult) 1-chloromethyl-4-methylnaphthalene gave PhN(NH2)C18C11H9, very viscous, yellow oil, bl 3 about 250'. To 40 g. III in 250 mL. dry C6H6 was added 35 g. p-o2Nc6H4COCl, and the mixture was heated 3 h. after the first vigorous reaction. The mixture was washed and the C6H6 driven off, leaving a colorless, greasy product, dihydrochaulmoogryl p-nitrobenzoet, decompose on distillation in a high vacuum, strongly bitory to I in vitro but inactive in guines pigs. The p-hydroxybenzoate and

p-nitropen.co.v.
thibitory
to I in vitro but inactive in guinea pigs. The p-hydroxybenzoate and
p-aminobenzoate of III were prepared and are being tested in vivo.
Homophthalic anhydride (2 g.) and 2 g. 2-undecylamine (V) (from the

immorphthalic anhydride (2 g.) and 2 g. 2-undecylamine (V) (from the inction of the nonyl ketone oxime) were distilled together to give N-2-undecylhomophthalinide, viscous, amber-yellow oil, bls 237-8', soluble in alkali with a yellow fluorescence (due to encl form), inactive toward II in mice. AccH2CH2Ac (VI) and V were condensed by the method of Knorr and Faal to give N-2'-undecyl-2, 5-dimethylpyrrole, bl3 178-9', p-tert-Butylaniline and VI gave N-[p-tert-butylphenyl]-2, 5-dimethylpyrrole, bl12 167', m. 33-4', colorless needles from alc. p-CH3SCGH4NH2 and VI gave N-p-methylmercaptophenyl-2, 5-dimethylpyrrole, m. 60-1' (from alc.), pale rose. VI and m-H2NCGH4NH2 gave N-m-dimethylaminophenyl-2, 5-dimethylpyrrole, bl1 174-5', m. 37', colorless needles from aqueous alc. VI and 4-methyl-1-naphthylamine gave N-[4'-methyl-1'-naphthyl]-2, 5-dimethylpyrrole, m. 154', colorless plates from alc. 1, 5-Naphthalenediamine and VI gave 1, 5-bis (2', 5'-dimethyl-1'-pyrryl)-naphthalene, colorless needles from AmoH, m. 288-9' (rapid heating), sublimes easily on heating, N-o-Chlorophenyl-2, 5-dimethylpyrrole, bl5 150', slight terpene-like door.
Suffanilamidothiazole and VI gave N-(2, 5-dimethylpyrryl)-p-phenylsulfamidothiazole, decompose 300' without melting. 3, 2-CH2:CHCH2(HO)CGH3CHO, bl1 111' (from Claisen rearrangement of o-CH2:CHCH2(HO)CGH3CHO, bl1 111' (from Claisen rearrangement of

ANSWER 34 OF 41 CA COPYRIGHT 2005 ACS on STN (Continued)
III, VI, and VII equaled that of sulfanilanide and IV was as potent as
sulfadiazine.
115166-72-8, Acetanilide, 4',4'''-[sulfonylbis(pphenyleneiminosulfonyl)]bis(preparation of)
115166-72-8 CA
Acetamide, N,N'-[sulfonylbis(4,1-phenyleneiminosulfonyl-4,1-phenylene)]bis(9CI) (CA INDEX NAME)

112 ANSWER 35 OF 41 CA COPYRIGHT 2005 ACS on STN (Continued)
give Et 8-allylcounsarin-3-carboxylate (VIII), colorless needles from alc.,
m. 86°, LD for a mouse was about 0.20 g. Rydrolysis of VIII gave
8-allylcounsarin-3-carboxylate acid, colorless needles from alc., m.
145-6°. Similarly, 5, 2-Cl(OM)CGMCIGNO (IX) and VII gave Et
6-chloroccumarin-3-carboxylate (X), colorless needles from alc., m.
159°, pale yellow in H2504; LD for a mouse was 0.20 g. Hydrolysis
of X gave 6-chloroccumarin-3-carboxylate (X), colorless needles from alc., m.
193°, Na salt slightly sol. in H20, sepp. as
pearly plates. XI was converted to the acid chloride (colorless solid) by
SCC12 and thence to the amide, m. 207-3° (from alc.). AccRCCO2Et
and IX in piperidine gave 3-acetyl-6-chloroccumarin, slightly sol. in
alc., colorless needles from alc. + CGM5, m. 207' (repid heating),
sublimes easily at 190°, ownem. 228' (decomp.).

OHENCEMHCOOM was converted to isatin-1-carboxylia and c-CGM4 (NIZ).

OHENCEMHCOOM was converted to isatin-1-carboxylia acid (XII), m. about
235' (decomp.), by the converted to isatin-1-carboxylia acid, yellow primas from
pyridine, m. 315°, yellow-brown in H2504. Isatin-6-carboxylia caid,
CXIVI (from m-H2004), and XIII gave indophenazine-8-carboxylia caid,
CXIVI (from m-H2004), and XIII gave indophenazine-8-carboxylia caid,
cryst. from P5NO2, m. about 340° (decomp.), easily sol. in aq. Na0H
(red color). Isatin-5-carboxylia caid, solid at 380°, yellow-brown in
H2504. 1. 2-Naphthelsedianie and XIV gave 1, 2-(or 3,
4)-benzindophenazine-8-carboxylia caid, m. 340° (decomp.), deep-red
in H2504, yellow Na salt. 2-Aminofluorene and p-AckNiGCOM) and XIII gave
indophenazine-8-carboxylia caid, m. 340° (decomp.), deep-red
in H2504, pellow Na salt. 2-Aminofluorene and p-AckNiGCMSCOM (XVI in
pyridine gave N-acetylsulfanilamido-2-fluorene (XVI), needles from
ACG, m. 258-3°. inactive toward in II. Prolonged heating of
XVI with a large excess of coned. ECI gave 2-sulfanilamido-10-methyliamido-10-methyliamido-10-methyliamido-10-methyl

L12 ANSWER 35 OF 41 CA COPYRIGHT 2005 ACS on STN (Continued) prepd. from β-naphthylsulfonyl chloride and the appropriate amine: N(β-naphthylsulfonyl)-o-anisidine, needles from alc. +CGHG, m. 159', N4-(β-naphthylsulfonyl)sulfanilanido-N1-2, 4-dimethylpyrimidine, m. 253.5' (from CGHG), N-(β-naphthylsulfonyl)-N-benzyl-m-chloroaniline, fine prismatic needles from alc. +CGHG, m. 132', 2-(β-naphthylsulfonylamino)fluorene, needles from alc. +CGHG, m. 162', N4-(β-naphthylsulfonyl)sulfanilmide, m. 250' (from CGHG), N-(β-naphthylsulfonyl)-p-nitraniline, yellow prisms from alc. +CGHG, m. 171-2', N-(β-naphthylsulfonyl)-N-ethyl-o-chloroaniline, prisms from alc., m. 115', N-(β-naphthylsulfonyl)-N-ethyl-o-chloroaniline, failed to cryst., N-(β-naphthylsulfonyl)-N-ethyl-β-naphthylsulfon, needles from CGHG, m. 187'.

11 135209-93-7, Acetanilide, 4'-[(p-(p-nitrophenylthio))phenyl]sulfamo yll-

yl|
yr|
yr|
preparation of)
135209-93-7 CA
Acctamide, N-14-[[{4-[(4-nitrophenyl)thio}phenyl]amino]sulfonyl]phenyl](9CI) (CA INDEX NAME)

L12 ANSWER 36 OF 41 CA COPYRIGHT 2005 ACS on STN (Continued) ACCESSION NUMBER:

41:4918 CA
ORIGINAL REFERENCE NO.: 41:1011; 1012a-e
ITITLE:

TUBECULOSTATE: COMPOUNDS

AUTHOR(S):

CORPORATE SOURCE:
SOURCE:

ACLA Medica Scandinavica (1946), 125,
487-501

CONDEN: AMSVAZ; ISSN: 0001-6101

DOCUMENT TYPE:
JOURNAL

BA An exptl. technique for testing compds. in vitro for tuberculostatic activity against a virulent human tubercle bacilli (AT) strain is described. The effect of the test medium is important because of growth-inhibiting effects from constituents of complex media. The synthetic medium consisted of the following ingredients in parts by weight: asparagine 14, KZHFO4 1.4, sodium citrate 0.9, MgSO4 1.5, ferric citrate 0.3, dextrose 10.00, glycarol 30.0 g., and distilled HZO t.,000. One mol. of p-HZNGGHACOOH counteracts the bacteriostatic effect of 1,000 mols. of sulfahialmade and about 20 mols. of sulfahiaxole. of 29 compds. investigated for tuberculostatic effect the most active was sulfathiazole. High activity was shown by 2-sulfaniamidonaphthoquinone, 4,4'-diaminodiphenyl sulfone (1), and 4-aminophenyl 2-hydroxy-5-thiazolyl sulfone hydrochloride. Slight activity was shown by sulfapyrimidine, sulfaniamidae, disodium formaldehydesulfoxylate of 1 (diasone), N.N.-digalactoside of I (tibatin), [p-(2-amino-5-thiazolyl sulfone)] in linomethylmercapto] acetic acid. Na 1-[p-(2-amino-5-thiazolyl sulfone)] in linomethylmercapto] acetic acid. Na 1-[p-(2-amino-5-thiazolyl sulfone)] in linomethylmercapto] acetic acid. Na 1-[p-(2-amino-5-thiazolyl sulfone)] in linomethylmercapto] acetic acid. Na 1-[p-(2-amino-5-thiazolyl-sulfonyl) amilinol ethanesulfonate, 4-aminophenyl 2-amino-4-achyl-5-thiazolyl sulfone dihydrochloride, dihydroxyphenazine di-N-oxide (iodinin, 2-achylquinoxaline di-N-oxide, and-thiouracil. Compds. which showed no activity are 2-sulfanilamidon-techylpyridine, 4-sulfanilamidon-thydroxy-2-methylpanilamidon-techylpyridine, 4-sulfanilamidon-delydedelydenone, 4-sulfanilamidon-delydedelydenone, 4-sulfanilamidon-delydedelydenone, 4-sulfanilamidon-delydedelydenone, 4-sulfan

L12 ANSWER 37 OF 41 CA COPYRIGHT 2005 ACS on STN
37:6654 CA
ORIGINAL REFERENCE NO.:
37:1124d-i,1125a-b
Chemotherapy of bacterial infections. VI. Synthesis of
N1-substituted sulfanilamides: poly- and heterocyclic
derivatives

derivatives
Rajagopalan, S.; Ganapathi, K.
Proceedings - Indian Academy of Sciences, Section A (
1942), 15A, 432-6
CODEN: PISAA7; ISSN: 0370-0089
Journal AUTHOR(S): SOURCE:

DOCUMENT TYPE: LANGUAGE:

COEM: PISAA7; ISSN: 0370-0089

JOURNAI

JOURNAI

JOURNAI

G. C. A. 36, 4102.4. In continuation of the systematic syntheses of

MI-substituted derivs. of sulfanilamide, typical representatives of

p-HNCGHSOZM: (I) derivs. of PADO, dibenzofuran, carbazole, acridine,
chrysene, coumarin, tetrahydroisoquinoline and phenanthridine have been
prepared; if any of them show promise, further elaboration in that group
will be made. The ring systems selected are such as either are present in
compds. with significant pharmacol. activity or may be expected

to fill gaps in the data necessary to correlate chemical constitution with
chemotherapeutic activity. All but 2 of the compds. described were prepared
in the usual way by condensing p-AcNHCGHSOZCI with the appropriate cyclic
amine and hydrolyzing off the Ac group from the resulting product.
Certain amino sulfonamides of pyridine, quinoline, naphthalene and
biphenyl have been described in the literature with no information as to
their therapeutic activity. As such compds, are of addal. interest in
ascertaining the implications of the Fildes (C. A. 34, 6364.1) and Woods
(C. A. 34, 7408.5) theory of the mechanism of the action of sulfonamides,
the synthesis of some of them was undertaken. 2-PhCGHNHAC with CISO3H
gave a sulfonyl chloride which with NH3 yielded a product, m.
195-8°, hydrolyzed by boiling NaOH to a compound (II) provisionally
designated as 2-aminobiphenyl-5(?)-sulfonamide. The starting amines were
in most cases prepared by methods recorded in the literature; the following
are either new or were prepared by improved methods. p-AcNHCGH4OPh (15 g.
from 19, 4g. p-MeC(ROM)CGH4OPh in 130 cc. AcOH and 100 cc. Ac2O saturated

0° with a slow stream of HCI (8 h.) and allowed to stand OTHER SOURCE(S):

from 19.4 g. p-MeC(:NOH)CGH4OPh in 130 cc. AcOH and 100 cc. Ac20 saturated 0° with a slow stream of HCl (8 h.) and allowed to stand overnight), m. 130°, 15 g., boiled 2 h. in 200 cc. of 6 N HCl gave p-PhoCGH4NI2.HCl, m. 225-7° (decomposition). Dibenzofuran (22 g. from 30 g. (o-HOCGH4)2 and 110 g. freshly fused ZnCl2 heated 4 h. at 230-50° and poured while still warm into dilute HCl; (cf. Kraemer and Weissgerber, Ber. 34, 1662 (1901)), m. 83-4°. N·(p-Mitrobenzoyl) homoveratrylamine, from (Neo) 2CGH3CH2-CHZNH2 and O2NCGH4COCl, faintly yellow plates from alc., m. 149°, 9, 7 g. gently refluxed 1.5 h. with 18 cc. POCl3 and then decomposed with water, gave 7.8 g. 1-(p-mitrophenyl)-3,4-dihydro-6,7-dimethoxyisoquinoline, silky needles from alc., m. 158-9°, 6 g. of which with 50 g. Zn dust and 500 cc. dilute HZSO4 (1:3) heated 3 h. on the water bath yielded 5.1 g. 1-(p-aminophenyl)-1,2,3,4-tetrahydro-6,7-dimethoxyisoquinoline, needles from water, m. 151-3°. In the following R = I and R' = P-ACHM-CH4SO2HH; the temps, are the m. ps. of the products; 2-R-di-Ph ather, 149° (R', 162°); 4-R-di-Ph ether, 177-8° (R', 183°); 3-R-phenanthrene, 213-15° (R', 244-5°); 6-R-chrysne, 265°; 2-R-dibenzofuran, 242-3°; 3-R-carbazole, 251° (decomposition); 6-R-carbazole, 244° (decomposition); 6-R-carbazole, 274° (decomposition); 7-R-acridine-ZHCl, - (9-R'-acridine, 273-5° (decomposition)); 1-(p-R-phenyl)-1-2,3,4-tetrahydro-6,7-dimethoxyisoquinoline, 162° (sinters 159°); 9-(m-R-phenyl)-phenanthridine, 251-3° (decomposition) (sinters 246°); II, 186°; 4-

L12 ANSWER 37 OF 41 CA COPYRIGHT 2005 ACS on STN (Continued)
aminonaphthalenesulfonamide, 250-1' (decompn.). These compds. are
being tested in exptl. plaque, B-hemolytic streptococcal and
pneumococcal (type 1) infections in mice.

IT 315248-48-7, Acetanilide, p-[4-phenoxyphenylsulfamyl](preparation of)
RN 315248-48-7 CA
Acetanide, N-[4-[[(4-phenoxyphenyl)amino]sulfonyl]phenyl]- (9CI) (CA
INDEX NAME)

isolated; these could not be converted into sulfonyl chlorides. Heating 25 g. II and ill g. p-C2NCGHANNZ at 160° for 5 hrs. gives 15.6 g. of 2-pyrrolidone-5-carboxy-p-nitroanilide, yellow, m. 225°.

1-2-Pyrrolidone-5-carboxanilide (3 g.) and 5.2 cc. C1803H, heated 3 hrs. at 60-70°, give a product m. 173′ (decompn.); heating with 2-aminopyridine in dioxane at 95′ for 15 min. gives 0.9 g. of 2-pp- (2-pyrrolidone-5-carboxanido)-phenyl-sulfonamido)-pyridine, m. 273°. (4-H2NCGH4)2802 (4.61 g.), diarotized in 174 HCl at -7° and coupled with 2-c10H70H, gives 7.6 g. of diphenyl-sulfone-4,4°-bisazo-2-naphthol (IV), scarlet, m. 304°; Na salicylate gives the 4,4°-bisazo-2-naphthol (IV), scarlet, m. 304°; Na salicylate gives the 4,4°-bisazo-8inylic acid (V), m. 316° (decompn.). Di-2-pyridyl sulfide di-HBr, m. 274°; oxidation of 1 g. with XCCr207 in AccH-H2SOG gives 2,2°-dipyridyl sulfone, m. 216°. Quinnic acid (4.3 g.), heated at 100° for 1 hr. with SOCI2 and the product treated with p-H2NCGH4SORMZ in CSHSN at 110° for 1 hr., gives 3.8 g. of N4-quinincylsulfanilamide, m. 255°. Antipyrine (10 g.) and 19.4 cc. C18031 at -15°, heated at 90° for 1.5 hr. and the resulting product treated with concent of the same of the same product treated with corresponding oxidation gives the sulfonic acid with SOCI22 at 90° for 2.5 hrs., the chiral same product treated with same product treated with an equal vol. oxidation gives the sulfonic acid with SOCI22 at 90° for 2.5 hrs., the chiral same product treated with a salt but the same product treated with salt same bath with p-H2NCGH4SOZNHZ in CSHSN for 2 the corresponding oxidation gives the sulfonic acid with SOCI22 at 90° for 2.5 hrs., the chiral same product treated with an equal vol. of ether, shaken with the round in same product treated with an equal vol. of ether, shaken with the round same product resulting solid (7.1 g.) exid. with CSHSN for SOCI22 at 90° for 2.5 hrs., with same

L12 ANSWER 38 OF 41 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

36:26808 CA

ORIGINAL REFERENCE NO.: 36:4103a-1,4104a-e

Antibacterial substances allied to sulfanilamide

AUTROR(S):

Dewing, T., Gray, W. H., Flatt, B. C., Stephenson, D.

Journal of the Chemical Society, Abstracts (
1842) 239-44

CODEN: JCSAA2, ISSN: 0590-9791

DOCUMENT TYPE:

JOURNAL OLD HAME AND AUTROL 150 CC. 2.5 N NaOH with 25 CC. BECL

Gives a Miture of the No Bec.

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gives a Miture of the No Bec.

and M2O); the latter is more conveniently prepared from the components in

CSMISN; both form sparingly soluble Na salts. The following 3 amides were

prepared by warming on a water bath for 1 hr. p-AcMHCGM4SOSNH2 and

chloride in CSMISN, followed by refluxing with N NAOH for 1 hr.:

sulfanilylamyristamide, m. 126', the adjumande (from

CICO(CM2)4COZEt), m. 178', and the chaulmoogramide, m.

80-90' (dihydro derivative, m. 78-80'). Ethyleneguanidine-HBF

(34 g,) in 240 cc. 101 Na2CO3, treated slowly with 49 g, p-AcMHCGM4SOZCI

(I) in 400 cc. Me2CO, gives 27 g, of the Ac derivative, m. 245';

refluxing 22 g, with 200 cc. 6 NHC1 for 1 hr. and addition of NHCN give 4

g. disulfanilylathyleneguanidine, m. 178-80' (decomposition); it is

insol. in alkali and probably has the structure

H2NCCHASOZN, (CELZ)2. N(SOZCHANIZ). CHNI. Glutamic acid (10 g,) and 16 g. I

give 8 g, of a product, m. 142' (decomposition); hydrolysis with 6 N MC1

(refluxing 0.5 hr.) gives sulfanilylgintamic acid, m. 235-241.

give 8 g, of a product, m. 142' (decomposition); hydrolysis with 6 N MC1

(refluxing 0.5 hr.) gives sulfanilylgintamic acid, m. 235-241.

give 8 g, of a product, m. 142' (decomposition); hydrolysis with 6 N MC1

(refluxing 0.5 hr.) gives sulfanilylgintamic acid, m. 235-241.

give 8 g, of a product, m. 142' (decomposition); hydrolysis with 6 N MC1

(refluxing 0.5 hr.) gives 19 g, of 19 g

L12 ANSWER 38 OF 41 CA COPYRIGHT 2005 ACS on STN (Continued)

L12 ANSWER 39 OF 41 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
35:37627 CA
GRIGINAL REFERENCE NO.:
35:5871c-1
Chemotherapy. III. Sulfones
AUTHOR(5):
Roblin, Richard O., Jr., Williams, James H., Anderson,
George W.
Journal of the American Chemical Society (1941), 63, 1930-4
CODEN: JACSAT, ISSN: 0002-7863
DOCUMENT TYPE:
JOURNAL DAVAILable
AB cf. C. A. 34, 6630.6. (The maximum blood levels (m. b. l.) below are in
mg./100 cc. for white mice with a dosage of 0.5 g./kg. body weight orally
unless otherwise stated.) 4-02NC6H4Br, 4-AcNHCGH4SOZH and AcOX in
cyclohexanol, followed by reduction, give 50% of 4-acetanido-4'aminodiphenyl sulfone (Ralziss, et al., C. A. 34, 393.9), m. 242-3'
(m. ps. corrected). solubility in H2O at 37' 7.1 mg./100 cc., m. b. l. 6.8
(white mice, 0.125 g./kg.), chemotherapeutically active against expt. streptococcal or pneumococcal infection or both in white mice: hydrolysis
gives 4.4'-diaminodiphenyl sulfone (I), m. 175', solubility 36.9 mg., m.
b. l. 3.6 (0.063 g./kg.), active. Condensation of I with octanesulfonyl
chloride in CSHSN and hydrolysis give 75% of octylsulfonamido-4'aminodiphenyl sulfone, m. 130', solubility 0.1 mg., m. b. l. 0.5,
inactive: I and AckNCGH5O2Ch in CSHSN give 35% of 4-sulfanilamido-4'aminodiphenyl sulfone, m. 211', solubility 2.6 mg., m. b. l. 1.5,
active. 2,5-CI(OZN)CGH3COZNHZ and 4-AcNNCGH5OZK (II) in 95% ECOH,
diaminodiphenyl sulfone, m. 238', solubility 10.4 mg., m. b. l. 1.5,
active. 2,5-CI(OZN)CGH3COZNHZ and 4-AcNNCGH5OZK (II) in 95% ECOH,
diaminodiphenyl sulfone, m. 238', solubility 10.4 mg., m. b. l. 1.3,
active. 2,5-CI(OZN)CGH3COZNHZ and 4-AcNNCGH4SOZK (II) in 95% EcOH,
diaminodiphenyl sulfone, m. 238', solubility 10.4 mg., m. b. l. 1.3,
active. 2,5-CI(OZN)CGH3COZNHZ and 4-AcNNCGH4SOZK (II) in 95% EcOH,
diaminodiphenyl sulfone, m. 238', solubility 10.4 mg., m. b. l. 1.5,
active. 2,5-CI(OZN)CGH3COZNHZ and 4-AcNNCGH4SOZK and AcOK in cellosolve,
followed by reduction and hydrolysis, give 60% of 2-sulfamilamid-4'active 2,5-CI(OZN)CGH3COZNHZ and 4-AcNN

1.5 moles of ECOH of crystallization, m. 108-13', solubility 422.5 mg., m. 1.

0.8, inactive. 2-o2NC6H4Br, 4-AcNHC6H4502H and AcOK in cellosolve, followed by reduction and hydrolysis, give 83% of 2.4'-diaminodiphenyl sulfone, m. 117', solubility 19.5 mg., m. b. 1. 9.9, inactive. 4.3-Br(02N)C6H3502NB2 and II in absolute ECOH, followed by hydrolysis, give 95% of 4-sulfamyl-2-nitro-4'-aminodiphenyl sulfone, m. 223-5', solubility 3.1 mg., m. b. 1. 3.5 (subcutaneous), silghtly active; reduction gives the corresponding 2.4'-diamino derivative, m. 206-7', solubility 10.7 mg., m. b. 1. 5.8 (subcutaneous), inactive. 4-O2NC6H4Cl and Ph502K in carbitol, followed by reduction, give 46% of 4-aminodiphenyl sulfone, m. 176', solubility 8.8 mg., m. b. 1. 5.2 (0.25 g./kg.), slightly active. 2-Bromopyridine and II in carbitol, with hydrolysis with 124 HCl, give 66% of 4-aminophenyl 2-pyridyl sulfone, m. 188-60', solubility 7.8 mg., m. b. 1. 12.7, active, 4-chloropyridine and II in 120, followed by hydrolysis, give 53% of the 4-pyridyl somer, m. 269-71', solubility 3 mg., m. b. 1. 2.1, inactive. 2-Bromothiazole and II in carbitol with subsequent hydrolysis give 63% of 4-aminophenyl 2-thiazyl sulfone, m. 149-51', solubility 30.1 mg., m. b. 1. 10, inactive. 2-Chloro-5-nitropyridine and II in absolute EtOH, followed by hydrolysis, 200 characteristic and II in absolute EtOH, followed by hydrolysis, 200 characteristic and II in absolute EtOH, followed by hydrolysis, 200 characteristic and II in absolute EtOH, followed by hydrolysis, 200 characteristic and II in absolute EtOH, followed by hydrolysis, 200 characteristic and II in absolute EtOH, followed by hydrolysis, 200 characteristic and II in absolute EtOH, followed by hydrolysis, 200 characteristic and II in absolute EtOH, followed by hydrolysis, 200 characteristic and II in absolute EtOH, followed by hydrolysis, 200 characteristic and II in absolute EtOH, followed by hydrolysis, 200 characteristic and II in absolute EtOH, followed by hydrolysis, 200 characteristic and II in absolu

85% of 4-aminophenyl 5-nitro-2-pyridyl sulfone, m. 169-71°, solubility 11.4 mg., m. b. l. 2.9, slightly active; reduction gives the 5-amino derivative, m. 186-7°, solubility 123 mg., m. b. l. 9.1, active. The pharmacol. properties of some of the compds. are discussed. 84907-42-6, Sulfanilanilide, 4'-sulfanilyl-

L12 ANSWER 40 OF 41 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 35:33568 CA
ORIGINAL REFERENCE NO: 35:5258d-f
ITILE: Aminophenyl sulfonamidophenyl sulfones
INVENTOR(S): Williams, James H.
American Cyanamid Co.
DOCUMENT TYPE: Patent
INVENTOR: Patent
INVENTOR: Patent
INVENTOR: INVENTO

TITLE: INVENTOR(S): PATENT ASSIGNEE(S): DOCUMENT TYPE: LANGUAGE: LANGUAGE: Unavailable

LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:

DATE PATENT NO.

US 22(0383 19410429 US <-For diagram(s), see printed CA Issue.

Compds. of the general formule in which R is an alkyl or aryl radical, X is H, NHM or a metal and n is a small whole number, may be prepared in good yield by the reaction of p-acylaminophenyl p-aminophenyl sulfones with alkyl, aryl or heterocyclic sulfonyl chlorides, followed by deacylation. These compds. are the S analogs of monoacylated diaminodiphenyl sulfones which have high therapeutic activity against various bacterial infections such as those due to pneumococci, streptococci, and the like and are much less toxic than the monoacylated diaminodiphenyl sulfones. Details are given of the preparation of p-aminophenyl p-octylsulfonamidophenyl sulfone,

130°, and p-aminophenyl p-sulfanilamidophenyl sulfone, m.

84907-42-6, Sulfanilanilide, 4'-sulfanilyl-IT

(preparation of) 84907-42-6 CA

Benzenesulfonamide, 4-amino-N-[4-[(4-aminophenyl)sulfonyl]phenyl]- (9CI)

L12 ANSWER 39 OF 41 CA COPYRIGHT 2005 ACS on STN (Continued)

(prepn. of) 84907-42-6 CA Benzenesulfonamide, (CA INDEX NAME) 4-amino-N-[4-[(4-aminophenyl)sulfonyl]phenyl]- (9CI)

L12 ANSWER 41 OF 41 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
32:66213 CA
ORIGINAL REFERENCE NO.:
32:9299e-f
TITLE:
A pharmacological study of factors
influencing the isolated melanophores of Fundulus
heteroclitus
Bogdanovitch, Sinisha B.
Archives Internationales de Pharmacodynamie et de
Therapie (1938), 59, 227-31
CODEN: AIPTAK, 15SN: 0003-9780
DOCUMENT TYPE:
JOURNAL 105N: 0003-9780
DOCUMENT TYPE:
LANGUAGE:
AB The melanophores of Fundulus heteroclitus are expanded by atropine,
pilocarpine and physostigaine, and contracted by adrealine,
acetylcholine, mecholyl and deuterium oxide. With various combinations of
these drugs, results were obtained suggesting that more than one
nervous mechanism is involved. Adrenergic and cholinergic action, though
both cause contraction, can be differentiated by ergotoxine and atropine.

114168-07-1, Sulfanilanilide, 4',4'''-sulfonylbis(preparation of)
NN 14168-07-1 CA
CN Benzenesulfonamide, N,N'-(sulfonyldi-4,1-phenylene)bis[4-amino- (9CI) (CA
INDEX NAME)

=> s 15 not 112 L13 362 L5 NOT L12

=> d l13 ibib abs fhitstr 1-40

L13 ANSWER 1 OF 362
ACCESSION NUMBER:
TITLE:
INVENTOR(S):

PATENT ASSIGNEE(S):
SOURCE:

DOCUMENT TYPE:

CA COPYRIGHT 2005 ACS on STN
138:304308 CA
Preparation of sulfonyl aryl hydroxamates and their
use as matrix metalloprotease inhibitors
Barta, Thomas E. / Becker, Daniel P. / Bedell, Louis J. /
Decrescento, Gary A. / Fresko, John N. / Getman, Daniel
P. / McDonald, Joseph J. / Mischke, Brent V. / Rao,
Shashidhar N. / Villamil, Clara I.
Pharmacia Corp., USA
U.S. Fat. Appl. Publ., 148 pp., Cont.-in-part of U.S.
Ser. No. 569,034.
CODEN: USXXCO
Patent

Patent English 10 DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PA	TENT :	NO.			KIN		DATE			APPL	ICAT	ION	NO.		D	ATE			
	115	2003	0738	45				2003									0010			
		6696		••		B2		2004	0224							-				
		9838				A1		1998	0911		WO 1	998-	11543	nn		1	9980	304 <-		
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	115	6380	258			B2		2002	0430		•••			••		-				
	IIS	2003	1913	17		A1		2003	1009		US 2	000-	7284	08		2	0001	201		
	IIS	6794	511	• '		B2		2004	0921					•••		_				
	CA	2001 6380 2003 6794 2453	613			22		2003	0130		CA 2	002-	2453	613		2	0020	719		
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	пр	2002	0114	30.,	,	-i,	,	2004	0713	٠.,	BR 2	002-	1143	n ZZ,	,	72	กกวก	719		
	JP	2002	5026	32		72		2006	ハミマブ		JP 2	003-	5135	61		2	0020	719		
PRIOR	JP 2005502632 PRIORITY APPLN, INFO.:							2000			115 1	997-	3518	2P		P 1	9970	304		
111101			21.		• •						WO 1	998-	US43	00	,	w 1	9980	304		
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								2003			US 1	998- 999- 999- 999-	3108	13		R2 1	9990	512		
											us i	999-	2302	09		A2 1	9990	624		
											US 2	000-	5690	34		A2 2	0000	511		

L13 ANSWER 1 OF 362 CA COPYRIGHT 2005 ACS on STN

L13 ANSWER 1 OF 362 CA COPYRIGHT 2005 ACS on STN (Continued)
US 2000-728408 A2 20001201
US 2001-909227 A 20010719
WO 2002-US23219 W 20020719

OTHER SOURCE(S):

MARPAT 138:304308

Title compds. I [W = 6-membered heterocycle containing the sulfonyl bonded

N.

A-R-E-Y = 4-substituent: A = 0, SO0-2, etc.; R = alkyl, alkonyalkyl, aryl, heteroaryl, cycloalkyl, etc.; E = absent, bond, CO, SO2, etc.; Y = absent, H, CH, CN, NO2, alkyl, haloalkyl, andnoalkyl; R5-6 = together with the atoms to which they are bonded, form an aliphatic or aromatic carbocyclic or heterocyclic ring having 5-7 members] are prepared Over 50 synthetic examples are disclosed. For example, phthalide is reacted with 4-(phenoxy)benzenethiol (BMF, KZCO3, 100°C, 2 h) and the resulting product converted to the hydroxamic acid (CHZC12, CLCCCCCI, DMF (cat), TMSOKH2, 0°C, 1.5 h) followed by oxidation (CHZC12, mCPBA, room temperature, 3 h) to II. II has ICSO = 10 nM for MMP-2, 45 nM for MMP-13 and >10,000 nM for MMP-1. I are inhibitors of MMP and angiogenesis.

RI. PAC (Pharmacological activity): SFN (Synthetic preparation): THU (Therapeutic use): BIOL (Biological study): PREP (Preparation): USES (Uses)

(Uses)
(use of sulfonyl aryl or heteroaryl hydroxamic acids and derivs. as aggrecanase inhibitors)
30385-50-4 CA
Benzamide, N-hydroxy-2-[[(4-phenoxyphenyl)amino]sulfonyl]- (9CI) (CA
INDEX NAME)

L13 ANSWER 2 OF 362 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
171TLE:
17TLE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

KIND DATE APPLICATION NO. DATE RU 2102091 C1 19980120 RU 1995-116472 19950919 <PRIORITY APPLN. INFO: RU 1995-116472 19950919 <B Title only translated.
T34941-71-4, Diutsifon
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Diutsifon for treating systemic scleroderma)
RN 34941-71-4 CA
CN 5-Pyrimidinesulfonamide, N,N'-(sulfonyldi-4,1-phenylene)bis[1,2,3,4-tetrahydro-6-methyl-2,4-dioxo-(9CI) (CA INDEX NAME)

L13 ANSWER 3 OF 362 CA ACCESSION NUMBER: TITLE:

COPYRIGHT 2005 ACS on STN
132:146184 CA
Synthesis of hydroxybenzenesulfonanilides against
parasite Fasciola hepatica and their uncoupling
activity for oxidative phosphorylation in rat liver
mitochondria
Wang, Xiaojing, Chen, Jing, Zhao, Jun, Li, Zhe, Xin,

AUTHOR (5):

CORPORATE SOURCE: SOURCE:

MITOCHONGE'S

Wang, Xiaojing; Chen, Jing; Zhao, Jun; Li, Zhe; Xin, Min

DEPARTE SOURCE: Department of Chemistry, Neimonggol University, Hohhot, 010021, Peop. Rep. China

(CE: Huakue Yanjiu Yu Yingyong (1999), 11(4), 422-424

CODEN: HYYIFM; ISSN: 1004-1656

HUAKUE; Journal

MENT TYPE: Journal

UNGE: Chinese

The 8 substituted hydroxybensenesulfonanilides were synthesized. The decoupling action of these compds. for oxidative phosphorylation in rat liver mitochondria were studied. The decoupling activities were measured by measuring stimulation of state 4 respiration and measuring the increase of Pi in reaction medium.

258263-21-77

RL: BAC (Biological study); PREP (Preparation); USES (Uses)

(synthesis of hydroxybenzenesulfonanilides against parasite Fasciola hepatica and their uncoupling activity for exidative phosphorylation in rat liver mitochondria)

258263-21-7 CA

Benzenesulfonanide, 3.5-dichloro-N-[4-[(4-chlorophenyl)cyanomethyl]-2-methylphenyl]-2-hydroxy-(9CI) (CA INDEX NAME) PUBLISHER: DOCUMENT TYPE: LANGUAGE: AB The 8 sub:

IT

L13 ANSWER 5 OF 362 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
132:122340 CA
Synthesis and biological screening of some novel
132:122340 CA
Synthesis and biological screening of some novel
2016 Source:
2016 Source:
2016 Source:
2017 Source:
2018 Source:
2019 So

REFERENCE COUNT:

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 4 OF 362 CA COPYRIGHT 2005 ACS ON STN ACCESSION NUMBER: 132:133340 CA

ACCESSION NUMBER: TITLE:

AUTHOR (S):

132:133340 CA
Approach to predicting the toxicity of chemical
substances
Zul'karnaev, T. R.; Tyurina, L. A.; Solominova, T. S.;
Novikov, S. M.; Kosheleva, O. M.; Kirlan, S. A.
Bashkirskii Gos. Med. Univ., Ufa, Russia
Gigiena i Sanitariya (1999), (3), 54-61
CODEN: GISAA; ISSN: 0016-9900
Meditsina
Journal

CORPORATE SOURCE:

PUBLISHER:

PUBLISHER: Meditaina
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB A method is proposed for predicting acute toxicity of chemical compds, which
is based on the complex hierarchic dichotomous model; examples are given
of its application. The proposed approach is related to acute toxicity,
directed to LD50 values. Seven models were incorporated for sequential
toxicol. classification of materials.

IT 256921-00-9

256921-80-9
RL: ADV (Adverse effect, including toxicity); PRP (Properties); BIOL (Biological study) (approach to predicting toxicity of chemical substances) 256921-80-9 CA Carbamic acid, [5-[[4-[[(4-methylphenyl)sulfonyl]amino]phenyl]thio}-lH-benzimidazol-2-yl]-, methyl ester (9CI) (CA INDEX NAME)

DOCUMENT TYPE: Patent LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: English PATENT NO. KIND DATE APPLICATION NO. DATE 19990618 <--19990618 <--JP 2000-554698 US 2001-701451 US 2003-738062 US 1998-89842P WO 1999-US13856 US 2001-701451

A1 20010516

MARPAT 132:49889 OTHER SOURCE(S):

L13 ANSWER 6 OF 362 CA COPYRIGHT 2005 ACS on STN (Continued)

Title compds., e.g., [I, II; X = null, alkyl, (substituted) aryl; R1 = YZ, (substituted) alkyl, aryl, aralkoxy, etc.; Y = (CH2)m, CGH4CH2, CGH4CH2, CENNCOCH2, etc.; Z = dialkyl- or aryl- or alkylarylsulfonium, trialkyl- or aryl-, or alkylarylsulmonium, etc.; R2 = H, Me, CONH2, COZMe; R3-R5 = H, halo, NO2, COZMe, COZMH2; R6 = H, Me, (substituted) alkyl, aryl, aralkyl; R7-R11 = H, except that either R7, R8, or R9 can = SO26; G = NH2, alkylimino, arylimino, acylimino, nitroaryl, arylaminoalkyl, etc.; R12-R16 = H, (substituted) CONHZ; R19 = OH, (substituted) NH2, ester group), were prepared Thus, N-[2-(5-pyridiniovalercylthio)benzoyl]-3-aminopropionamide bromide was prepared in several steps from 2,2'-dithiobenzoyl chloride and B-alaninamide hydrochloride. Pyridinioalkyl thioesters did not inhibit HIV-1 integrase, reverse transcriptase, or protease but did promote Zn ejection from NCp7 protein. AB ΙT

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (preparation of benzamide thiolesters, disulfides, benzisothiazolones, .

and related compds. as inactivators of zinc finger containing retroviruses)
221119-80-8 CA
Benzamide, 2,2'-dithiobis[N-[4-[[4-[[4-(acetylamino)phenyl]sulfonyl]amino
]phenyl]sulfonyl]phenyl]- (9CI) (CA INDEX NAME)

L13 ANSWER 7 OF 362 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
117LE: 132:42829 CA Positively-working photosensitive polyimide precursor composition and formation of relief pattern using the composition OXaba, Kaori; Pujieda, Nagatoshi
Hitachi Chemical Du Pont Micro System Co., Ltd., Japan Japan. Kokai Tokkyo Koho, 7 pp.
CODEN: JNCKAF
PATENT INFORMATION: 1
Japanese
FAMILY ACC., NUM. COUNT: 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 11338143
PRIORITY APPLN, INFO.: JP 1998-139626 JP 1998-139626 19991210 19980521 <--

The title composition contains a 5-60%-imidized polyamic acid, a naphthoquinonediazide compound, and a phenolic OH-containing compound I (n

3) X=H, OH, amino, monovalent organic group; ≥1 of X in 1 aromatic ring is OH X = single bond, divalent aliphatic group). The composition is applied

substrate, dried, patternwise irradiated with an active beam, developed with an aqueous alkali solution, and heated to form a relief pattern.

with an aqueous alkali solution, and heated to form a relief pattern. The composition
shows high sensitivity toward i-line and improved developability and provides a high resolution relief pattern. The composition is suitable for semiconductor device fabrication.

IT 125677-73-89
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(pow. working photoresist containing partially imidized polyamic acid, naphthoguinonediazide, and phenolic compound for relief patterning)
RN 125677-73-8 CA
CN 1-Naphthalenesulfonamide, N,N'-(sulfonyldi-4,1-phenylene)bis[6-diazo-5,6-dihydro-5-oxo- (9CI) (CA INDEX NAME)

L13 ANSWER 6 OF 362 CA COPYRIGHT 2005 ACS on STN

(Continued)

PAGE 1-B

L13 ANSWER 7 OF 362 CA COPYRIGHT 2005 ACS on STN (Continued)

L13 ANSWER 8 OF 362
ACCESSION NUMBER:
TITLE:
TITLE:
Positive-working photoresist compositions and manufacture of electric devices thereof
Yamazaki, Noriyuki
Hitachi Chemical Du Pont Micro System Co., Ltd., Japan
SOURCE:
DOCUMENT TYPE:

COEN: JKXXAF
Patent

DOCUMENT TYPE: Patent

LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11338154	A2	19991210	JP 1998-149945	19980529 <
PRIORITY APPLN. INFO.:			JP 1998-149945	19980529
AR The common contain	(A) a	lkaline solut	ion-soluble polvimides.	polvoxazoles.

or their heir precursors, (B) o-quinonediazides, and (C) photoacid generators. A may be a polyimide precursor with repeating units C(O)R1(CO2R3)2C(O)NHRZNH (RI = tetravalent organic group; R2 = carboxyl, phenolic OH-containing divalent

group; R3 = monovalent organic group). The manufacturing process of elec. device

surface protection films with the compns. The photoresists have excellent sensitivity to i-rays and give films having good solubility of exposed sites and insoly, of unexposed sites.

125677-73-8, 4,4'-Dimminddiphenylsulfone naphthoquinone-1,2-diazido-5-sulfonyl chloride ester (1:2)

RL: TEM (Technical or engineered material use); USES (Uses) (photoscid generator; pos.-working photoresist compns. and manufacture of elec. devices thereof)

125677-73-8 CA especially semiconductor devices, involves forming interlayer dielec. films

IT

1256/7-13-8 CA 1-Naphthalenesulfonamide, N,N'-(sulfonyldi-4,1-phenylene)bis[6-diazo-5,6-dihydro-5-oxo- (9CI) (CA INDEX NAME)

L13 ANSWER 10 OF 362 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 131:293334 CA

TITLE: Thermal recording material providing durable image
INVENTOR(S): Tominaga, Nobuhide, Oya, Keijir Shigeno, Koichi
Apahi Denka Kogyo K. K., Japan
Jpn. Kokai Tokkyo Koho, 9 pp.

COLENI JOXAF

Japanese

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. DATE APPLICATION NO DATE JP 11286175
PRIORITY APPLN. INFO.:
OTHER SOURCE(S):
GI A2 19991019 JP 1998-107083 JP 1998-107083 19980402 <--19980402 MARPAT 131:293334

The title material contains a diphenylsulfone derivative I (RI = CI-8 alkyl, Phr R2-4 = H, halo, PhO, NO2, CI-8 alkyl, alkoxy) as a color developer in the heat-sensitive layer. The material provides storage-stable images with high d. without background fog. 246537-83-7

RL: TEM (Technical or engineered material use); USES (Uses) (storage-stable thermal recording material containing diphenylsulfone as color developer) 246537-83-7 CA

Benzenesulfonamide, N,N'-(sulfonyldi-4,1-phenylene)bis[2-methoxy- (9CI)

L13 ANSWER 9 OF 362 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
TITLE:
Positive-working photosensitive resin compositions and formation of relief patterns thereof
SINVENTOR(5):
SAURCE:
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INDEMATION:
132:28666 CA
Positive-working photosensitive resin compositions and formation of relief patterns thereof
sauki, Mamoru
Hitachi Chemical Du Pont Micro System Co., Ltd., Japan
COODEN: XXXXAF
Japanese
FAMILY ACC. NUM. COUNT:
1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

KIND DATE APPLICATION NO. DATE PATENT NO.

JP 11338157 A2 19991210 JP 1998-149944 19980529 <-PRIORITY APPIN. INFO.:

AB The compns. contain (A) acid group-containing polymers, preferably polyimide or polyowazole precursors, (B) photosacid generators, and (C) OCN(CH2)nSiR3-m(OR')m (n - 1-10, R, R' - C1-5 alkyl, m = 0-3). A may be a polyamic acid esters with repeating units C(O)RI (COZR3)2C(O)NRCNHI (R1 - tetravalent organic group, R2 - carboxyl, phenolic OH-containing divalent organic group, R3 - monovalent organic group). Formation process of relief patterns with the compns. is also claimed. The photoresists are especially suitable for

protection films and interlayer dielec. films for semiconductor devices.
125677-73-8, 4,4'-Diaminodiphenylsulfone naphthoquinone-1,2diazido-5-sulfonyl chloride ester (1:2)
RE: TEM (Technical or engineered material use): USES (Uses)
(photoacid generator: pos.-working photoresist compns. and manufacture of
elec. devices thereof)
125677-73-8 CA
1-Maphthalenesulfonamide, N,N'-(sulfonyldi-4,1-phenylene)bis[6-diazo-5,6-dihydro-5-oxo- (9CI) (CA INDEX NAME)

L13 ANSWER 11 OF 362 CA COPYRIGHT 2005 ACS On STN ACCESSION NUMBER: 131:264839 CA

INVENTOR(S):

131:264839 CA
Thermosensitive recording material
Hayakawa, Kunio; Morita, Mitsunobu
Ricoh Co., Ltd., Japan
Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JUCKAF
Patent
Japanere PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 11277906
PRIORITY APPLN. INFO.:
OTHER SOURCE(S):
GI 19980327 <--19980327 A2 19991012 JP 1998-98152 JP 1998-98152

MARPAT 131:264839

AB In the title recording material having a heat-sensitive recording layer containing a leuco dye and a developer, >1 compound containing >2 aromatic sulforyl groups having an actdic functional group as the substituent

I (x = divalent group) is contained. An under coat layer containing spherical hollow plastic particle is placed between the support and the heat-sensitive recording layer. The invention recording material shows superior resistance to oil and plasticizer and heat, and shows high image storage stability.

IT 52692-07-6

RL: MOA (Modifier or additive use). Uses (Monthly and Storage Storage of the Storage of
SZ692-07-6 KR. MOA (Modifier or additive use), USES (Uses)
(contained in recording layer for thermosensitive recording material)
52692-07-6 CA
Benzenesulfonamide, N,N'-(oxydi-4,1-phenylene)bis[4-hydroxy- (9CI) (CA
INDEX NAME)

L13 ANSWER 12 OF 362
ACCESSION NUMBER:
131:264793 CA
Haterial having hydrophilic and hydrophobic parts, its
manufacture, and printing apparatus using
water-thinned ink therefrom
Sasaki, Hiroshir Shoji, Mitsuyoshir Kawashima,
Kenichir Ito, Yutaka
Hitachi, Ltd., Japan
SOURCE:
DOCUMENT TYPE:

CA COPYRIGHT 2005 ACS on STN
131:264793 CA
Material having hydrophobic parts, its
manufacture, and printing apparatus using
water-thinned ink therefrom
Sasaki, Hiroshir Shoji, Mitsuyoshir Kawashima,
Kenichir Ito, Yutaka
Hitachi, Ltd., Japan
SOURCE:
DOCUMENT TYPE:
Patent

DOCUMENT TYPE: Patent Japanese 1

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11265058	A2	19990928	JP 1998-67446	19980317 <
JP 3340377 PRIORITY APPLN. INFO.:	В2	20021105	JP 1998-67446	19980317

PRIORITY APPLM. INFO.: JP 1998-67446 19980317
OTHER SOURCE(S): MARPAT 131:264793

AB The material is characterized by that a material of which surface has water contact angle ≥150°, preferably a perfluoroalkyl polyether, is applied thereon parts with water contact angle 80-130° by light exposure and then bonded or adhered thereon with a material having water contact angle \$70°, preferably an oxysilane. A manufacturing method of the material, a letterpress printing apparatus

using the material, and a convexo-concave surface forming method are also claimed. The material shows high water repellency. 208183-16-89 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT

RE: IMF (Industrial manufacture) RC: (Reactant) TRAE (Preparation) ARC:
(Reactant or reagent)
(manufacture of material having surface with hydrophilic and hydrophobic
parts and printing plates using water-thinned ink)
208183-16-8 CA
Benzensulfonamide, N-[4-[4-(4-minophenoxy)phenoxy]phenyl]-4-phenoxy(9CI) (CA INDEX NAME)

ANSWER 13 OF 362 CA COPYRIGHT 2005 ACS on STN (Continued)
(manuf. of electronic device including formation of relief pattern by
imidation of developed image made of pos. working photosensitive
polyamic acid compn.)
125677-72-7 CA
1-Naphthalenesulfonamide, N,N'-(oxydi-4,1-phenylene)bis[6-diazo-5,6dihydro-5-oxo- (9CI) (CA INDEX NAME)

LI3 ANSWER 13 OF 362
ACCESSION NUMBER:
TITLE:
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
FAMILY ACC. NUM. COUNT:
CACCESSION NUMBER:
CAC COPYRIGHT 2005 ACS on STN
13:164292 CA
POSITIVELY WORKING photosensitive polymer composition, varies of the composition, and electronic device manufactured by using the varnish
Okabe, Yoshiakin Maegawa, Yasunsari, Mitsuwa, Takaor
Uno, Takumi
Hitachi, Ltd., Japan; Hitachi Chemical Co., Ltd.
Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JOKAF
Patent
Japanese
JAMILY ACC. NUM. COUNT:
1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 11212258
PRIORITY APPLN. INFO.: A2 19990806 JP 1998-12404 JP 1998-12404 19980126 <--19980126

The pos.-working photosensitive composition contains polyamic acid-polyamic acid ester I [W, X = SO, SO2, CO, C(CF3)2, Y = divalent organic group

solvent and
the resin concentration in the varnish is 5-45 weights. The electronic

the resin concentration as con----device is
manufactured by using the varnish by applying on a substrate, prebaking,
exposing through a photomask, developing with aqueous alkali, and imidating
under heating to form a pos. relief pattern. Passivation files,
interlayer insulator films, etc., can be formed without etching process.

IT 12567-72-79

DI. VMM (Industrial manufacture); TEM (Technical or engineered material

RE: THF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

L13 ANSWER 14 OF 362 CA COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 131:122984 CA Positive-working photosensity

131:122984 CA
Positive-vorking photosensitive resin composition and
relief pattern formation using same
Sasaki, Mamoru; Nunomura, Masataka; Ohe, Tadayuki;
Anzai, Takanori; Uchimura, Shunichiro
Hitachi Chemical Co., Ltd., Japan
Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKOXAF

INVENTOR (5):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: Patent

Japanese

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 1997-339817 JP 1997-339817 19971210 <--JP 11174679 λ2 19990702 PRIORITY APPLN. INFO:: JP 1997-339817 19971210
AB The title resin composition contains photoacid generator and a mixture of 2 kinds

of polyimide precursors having CO2H or phenolic CH group which have a dissoln. rate ratio to aqueous alkali solns. of ≥5. The composition is coated on a substrate, dried, exposed to active ray, developed with an

ous
alkali solution, and heat-treated to form a relief pattern. The
cosition shows
high sensitivity toward active ray such as i-line and provides a high
quality relief pattern using aqueous alkali solns.
125577-73-8, 4, 4'-Diaminodiphenylsulfone naphthoquinone-1,2diazido-5-sulfonyl chloride ester (1:2)
RL: TEM (Technical or engineered material use); USES (Uses)
(photoacid generator; photoresist composition containing alkali dissoln.
125677-73-8 CA

12307-13-8 CA
1-Naphthalenesulfonamide, N,N'-(sulfonyldi-4,1-phenylene)bis[6-diazo-5,6-dibydro-5-oxo- (9CI) (CA INDEX NAME)

L13 ANSWER 15 OF 362 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

TITLE:

Positive-working photosensitive resin composition and relief pattern formation using same

Sanski, Mamoru, Nunomura, Masataka; Ohe, Tadayuki;

Uchimura, Shunichiro

PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE:

CODEN: JEXOCAF

Patent

Patent Japanese 1 DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

DATE APPLICATION NO. PATENT NO. KIND DATE JP 11174678 JP 3436673 19990702 20030811 JP 1997-339816

PRIORITY APPLN. INFO:: JP 1997-339816 19971
AB The title resin composition contains a polyamic acid ester having a

AB The title resin composition contains a polyamic acid ester naving a repeating unit NHCORI(COZR2)(COZR3)CONHR4 (RI = tetravalent organic group; R2, R3 = hydrocarbon group; R4 = divalent organic group having 21 phenolic OH or COZH group) and a photoacid-generator and the dissoin. rates to aqueous alkeli sclution of the film made of the composition are 430 and 280 mm/s before and after irradiation with active ray at 700 mJ/m2, resp. The composition is coated on a substrate, dried, exposed to active ray, developed

developed
with an aqueous alkeli solution, and heat-treated to form a relief pattern.

composition shows high sensitivity toward active rays and provides a high quality relief pattern using aqueous alkali solns.

RL: TEM (Technical or engineered material use); USES (Uses) (acid generator; pos. photoresist composition containing polyamic acid ester and

acid generator) 125677-73-8 CA

acto generator, 125677-73-8 CA 1-Naphthalenesulfonamide, N,N'-(sulfonyldi-4,1-phenylene)bis[6-diazo-5,6-dibydro-5-oxo- (9CI) (CA INDEX NAME)

L13 ANSWER 17 OF 362
ACCESSION NUMBER:
131:97171 CA
131:97171 CA
AUTHOR(S):
AUTHOR(S):
CORPORATE SOURCE:
SOURCE:
SOURCE:
Bulletin of Experimental Biology and Medicine
(Translation of Experimental Biology and Medicine
(Translation of Syulleten Exsperimental noi Biologii i
Heditsiny) (1998), 125(6), 588-590
COOUNE EXCENT STREET
DOCUMENT TYPE:
CONSULTANT SUPPORT

DOCUMENT TYPE: LANGUAGE: AB The pyrim Journal English

UNGE: English
The pyrimidine derivas xymedone and diucifone decrease the activity of adenylate cyclase, as shown in expts. on thymocytes and lymphocytes of guines pig lymph nodes and human peripheral blood lymphocytes. Inhibition of the enzyme depends on the subpopulation and species appurtenance of immunocompetent cells. The relationship between the results and effects of pyrimidine derivs; in experiment and cilin. setting is discussed.
34941-71-4, Diucifone
RL: RAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(Uses)
 (effect of pyrimidine derivs. on adenylate cyclase system of
 immunocompetent cell regulation in vitro)
34941-71-4 CA
5-Pyrimidinesulfonamide, N,N'-(sulfonyldi-4,1-phenylene)bis[1,2,3,4-tetrahydro-6-methyl-2,4-dioxo-(9CI) (CA INDEX NAME)

15

REFERENCE COUNT:

THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 16 OF 362

ACCESSION NUMEER:
131:102270 CA

AUTHOR(S):

AUTHOR(S):

Hein, Christiane: Affald, Ansgar, Nieger, Martin, Vogtle, Fritz

CORPORATE SOURCE:

Kekule-Institut Organische Chemie Biochemie, Univ. Bonn, Bonn, D-53121, Germany

Helvetica Chimica Acta (1999), 82(S),

746-759

COEN: HCACAV, ISSN: 0018-019X

PUBLISHER:

Verlag Helvetica Chimica Acta (1999), 82(S),

746-759

COEN: HCACAV, ISSN: 0018-019X

PUBLISHER:

Verlag Helvetica Chimica Acta

DOCUMENT TYPE:

Journal

LANGUAGE:

AN New [2]rotawanes were prepared by the threading and the slipping procedure, the lister having the advantage of not needing templating interactions. As a consequence, the first [2]rotawane consisting of a tetramide marcrocycle and a pure hydrocarbon thread was synthesized. Sterically matching wheels and makes being the basic requirement of a successful slipping approach to rotawanes, mono- and bis-homologous wheels were synthesized and mech. connected to anide axles which were stoppered with blocking groups of different spatial demand. The deslipping kinetics of the resulting rotawanes were measured and compared. It emerges that even slight increases in the wheel size require larger stoppers to stabilize the mech. bond. Moreover, when the deslipping rate of a rotawane with anide wheel and amide axle was determined in either DHF or THF, a strong dependence on the solvent polarity, which is caused by a differing extent of intramol. H-bonds between the wheel and the axle, was observed As expected, no such dependence was detected for a rotawane with anide wheel and hydrocarbon axle whose components cannot interact via H-bonds. The comparison of the sterically matching pairs of macrocycles and blocking groups, found by a systematic fitting based on the results of slipping and deslipping experience of the sterically matching pairs of macrocycles and blocking (roups structure.)

17 17083-12-4P

RL: FEP (Physical, engineering or chemical process); FRF (Properties), SPN (Synthetic preparation); PRF (Preparation); PRF (Propertie

REFERENCE COUNT:

THERE ARE 69 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 69

L13 ANSWER 18 OF 362 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
131:73558 CA
TITLE: Preparation of chromansulfonamides as β-3
adrenoreceptor agonists
Ladouceur, Gaetan H.; Connell, Richard D.; Baryza,
Jermy; Campbell, Ann-Harie; Lease, Timothy G.; Cook,
James H.

James H.
Bayer Corporation, USA
PCT Int. Appl., 95 pp.
CODEN: PIXXD2
Patent
English PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PATENT NO.		KIN	D	DATE			APP	LIC	AT:	ION I	NO.		I	ATE					
	WO.	9932	175			A1	•	1999	0701	•	wo	199	8-1	JS24	627		1	9981	117	<·
																		CZ,		
			DK.	EE.	ES.	FI.	GB.	GE.	GH,	GM.	HR	, н	U,	ID,	IL,	IS,	JP,	KE,	KG,	
																		MW,		
			NO.	NZ.	PL.	PT.	RO.	RU.	SD.	SE.	SG	, s	ı,	SK,	SL,	TJ,	TM,	TR,	TT,	
																		TM		
		RW:																DK,		
			FI.	FR.	GB.	GR.	IE.	IT.	LU.	MC.	NL	. Р	Ť.	SE.	BF.	BJ,	CF,	CG,	CI	
			CM.	GA.	GN	CU	MT.	MR.	NE.	SN.	TD	. т	G							
	ZA	9810 2314	189			A.		1999	0520		ZA	199	8-	104B	9		1	19981	117	<
	CA	23149	925			λA		1999	0701		CA	199	8-	2314	925		1	9981	117	<
	ΑU	9914: 7510: 1054:	183			A1		1999	0712		ΑU	199	9-	1418	3		- 1	19981	117	<
	ΑU	7510	15			B2		2002	0808											
	EP	1054	891			A1		2000	1129		ΕP	199	8-	9580	70		1	19981	117	•
		R:	AT.	BE.	CH.	DE.	DK,	ES,	FR,	GB,	GP	, I	T,	LI,	LU,	NL,	SE,	MC,	PT,	,
			TE	OT.	17	137	PI	PO.												
	JP	2001 5020 6051 2003	5262	91		T2		2001	1218		JP	200	0-	5254	12		1	19981	117	
	TW	5020	32			В		2002	0911		TW	199	8-	8711	8968		1	19981	117	
	US	6051	586			Α		2000	0418		US	199	8-	1990	14		1	19981	123	
	US	2003	0738	39		A1		2003	0417		US	200	0-	5202	01		- 2	20000	307	
	US	2004	0728	43		A1		2004	0412		US	200	3-	6672	86		- 2	20030	919	
	US	6903	218			B2		2005	0607											
RIC	RIT	Y APP	LN.	INFO	. :													19971		
																		19971		
																		19981		
																		19981		
											IIS	200	nn-	5202	n1		R1 :	20000	307	

OTHER SOURCE (S): MARPAT. 131:73558

L13 ANSWER 18 OF 362 CA COPYRIGHT 2005 ACS on STN

$${\rm RAr}^1{\rm CH}({\rm OH})\,{\rm CH}_2{\rm NR}^3\,({\rm CH}_2)_m \longrightarrow {\rm V} ({\rm CH}_2)_n\,({\rm Ar}^2)_p\,({\rm Y})_p{\rm R}^4$$

Title compds. [I; R = H, OH, O, halo, haloalkyl, alkyl, cyano, NO2, N(R1)2, SR1, OR1, SO2R2, COR2, COR2, NRISO2R2, RNICOR2; R1 = H, (substituted) alkyl, cycloalkyl, Ph, naphthyl; R2 = R1, N(R1)2; R3 = H, alkyl, RArlCH(OH)CH2; Ar1 = Ar1OCH2, Ph, (fused) heterocyclyl; m = 1-3; n = 0-4; X = piperarinylsulfonyl, NRSSO2; Ar2 = (substituted) (fused) Ph, heterocyclyl; Y = OY, NRI, NRICO, (oxo-substituted) cycloalkyl, heterocyclyl; p = 0, 1; R4 = H, R1, R2, oxo, (substituted) beteroalkyl, alkyl, haloalkyl], were prepared for treatment of diabetes and obesity (no data). Thus, (R) - (syrid-3-yl) oxirane (preparation given) and -2-aminomethylchronan-6-sulfonic acid (14-[4-(3-cyclopentylpropyl)-5-oxo-4,5-dihydrotetrazol-1-yl)phenyl]amide (preparation given) were refluxed in /H2O EtOH/H20

/H2O to give 11% title compound (II). 228709-93-1P

228709-93-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); TRU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of chromansulfonamides as β-3 adrenoreceptor agonists) 228709-93-1 CA

228'09-93-1 CA 228'109-93-1 CA 228'109-1
Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS

11

6

LI3 ANSWER 19 OF 362
ACCESSION NUMBER:
TITLE:

INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:

DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
FATENT INFORMATION:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:

131:65895 CA
Positive-working photosensitive polyimide precursor and relief pattern formation using it
Okaba, Kacri, Fujieda, Nagatoshi: Watanabe, Naoki
Hitachi Chemical Co., Ltd., Japan
CODEN: JOXXAF

PATENT INFORMATION:

131:65895 CA
Positive-working photosensitive polyimide precursor and relief pattern formation using it
Okaba, Kacri, Fujieda, Nagatoshi: Watanabe, Naoki
Hitachi Chemical Co., Ltd., Japan
CODEN: JOXXAF

LANGUAGE:

PATENT INFORMATION:

131:65895 CA
Positive-working photosensitive polyimide precursor and relief pattern formation using it
Okaba, Kacri, Fujieda, Nagatoshi: Watanabe, Naoki
Hitachi Chemical Co., Ltd., Japan
Japanese

LANGUAGE:

DOCUMENT TYPE:
PATENT INFORMATION:

131:65895 CA
Positive-working photosensitive polyimide precursor
and relief pattern formation using it
Okaba, Kacri, Fujieda, Nagatoshi: Watanabe, Naoki
Hitachi Chemical Co., Ltd., Japan
Japanese

LANGUAGE:

DOCUMENT TYPE:
PATENT INFORMATION:

131:65895 CA
Positive-working photosensitive polyimide precursor
and relief pattern formation using it
Okaba, Kacri, Fujieda, Nagatoshi: Watanabe, Naoki
Hitachi Chemical Co., Ltd., Japan
Japanese

LANGUAGE:

LANGUAGE:

DOCUMENT TYPE:
PATENT INFORMATION:

PATENT INFORMATION:

131:65895 CA
POSITION:

131:65895 CA
POSITION:

PATENT INFORMATION:

131:65895 CA
POSITION:

131:65895 CA
POSITION:

PATENT INFORMATION:

131:65895 CA
POSITION:

131:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11153868	A2	19990608		19971119 <
PRIORITY APPLN. INFO.:			JP 1997-318081	19971119
			comprises a polyamic acid	
			ing acid by light. The re	
			n a substrate, drying, ir	
		1 - 1	-alution and heat-treat	ing the

sensitive to i-ray, developable with aqueous alkaline solution even when

sensitive to 1-19, 10-10-10
to layer is
thick, and gives clear relief patterns.
1125677-73-6
RL: TEM (Technical or engineered material use), USES (Uses)
(photoresist composition containing imidation degree-controlled polyamic

L13 ANSWER 18 OF 362 CA COPYRIGHT 2005 ACS on STN (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 20 OF 362
ACCESSION NUMBER:
TITLE:
Silver halide photographic material to be processed with developer not containing primary aromatic amine INVENTOR(5):
INVENTOR(5):
SOURCE:
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:

1 3 1:51984 CA
Soliver halide photographic material to be processed with developer not containing primary aromatic amine Indicate Co., Japanese
LSD ACCESTANCE CO., VALUE CO., VA

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

APPLICATION NO. PATENT NO. KIND DATE DATE

PAGE 1-A

L13 ANSWER 20 OF 362 CA COPYRIGHT 2005 ACS on STN

(Continued)

PAGE 2-A

L13 ANSWER 22 OF 362
ACCESSION NUMBER:
130:252356 CA
Preparation of 2-[(arylmethyl)phenylamino]-2inidazolines as prostaglandin IP receptor antagonists
Bley, Keith Roger Clark, Robin Douglass Jahangir,
Alams Kowalczyk, Bruce Andrew; Lopez-Tapala, Francisco
Javier: Muehldorf, Alexander Victori O'Yang, Coundes
Sun, Thomas Weitao
FATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:

COEN: EPXXDW
Patent DOCUMENT TYPE: Patent English 1 LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.		DATE	APPLICATION NO.	DATE
EP 902018			EP 1998-116091	19980826 <
KP 902018				19960020 1
EP 902018	A3	20010502	' ' ' ' ' ' ' ' '	
R: AT, BE, CH,	DE, DK	ES, FR,	GB, GR, IT, LI, LU, I	NL, SE, MC, PI,
IE, SI, LT,		, RO		19980820
NZ 331480	Α.	20000228		
US 6184242	B1	20010206		19980820
CA 2245755	AA	19990304	CA 1998-2245755	19980827 <
IL 125982		20020912	IL 1998-125982	19980828
ZA 9807925		19990304	ZA 1998-7925	19980831 <
JP 11140057		19990525	JP 1998-248047	19980902 <
JP 3040752		20000515		
NO 9804044		19990305	NO 1998-4044	19980903 <
NO 312294	B1	20020422		
AU 9883094		19990318	AU 1998-83094	19980903 <
AU 746480	B2	20020502		
BR 9803373	A	20010424	BR 1998-3373	19980903
RU 2211834	C2	20030910	RU 1998-117245	19980903
CN 1216762	A	19990519	CN 1998-118587	19980904 <
CN 1110484	В	20030604		
TW 432046	В	20010501	TW 1998-87114724 HK 1999-104374	19980908
HK 1019334	A1	20040213	нк 1999-104374	19991007
US 6472536	B1	20021029	us 2000-666065	20000919.
US 2003036655	A1	20030220	US 2002-159589	20020531
US 6596876	B2	20030722		
US 2003229123	A1	20031211	US 2003-425778	20030429
US 6693200	B2	20040217		
US 2004122053	A1	20040624	US 2003-731607	20031209
PRIORITY APPLN. INFO .: .			US 1997-57808P	P 19970904
			US 1998-89916P	P 19980619
			US 1998-88015P	P 19980604
			US 1998-137507 US 2000-666065	A3 19980820
			US 2000-666065	B3 20000919
			US 2002-159589 US 2003-425778	A3 20020531
			US 2003-425778	A3 20030429
omino colinerio.	*****	120.25225	-	

US 2003-425778 A2 20030429

OTHER SOURCE(5):

MARPAT 130:252356

AB RICH2ZHHR (R = 2-imidazolin-2-yl)[I, Rl = R3Z1, R5Z2, (un) substituted 4-piperidinyl, etc., R3 = halo, (cyclo]alkyl, heterocyclyl, (di) (alkyl)amino, carbamcyl(alkyl), etc., R5 = hydroxy(alkyl), alkoxy(alkyl), acylalkoxy, etc., Z,Z1 = (un) substituted 1,4-phenylene, 22 = pyrrole-, furan-, or thiophene-3-, -4-, or -5,2-diyl) were prepared as prostaglandin IP receptor antagonists (no data). Thus, PhoMe was acylated by 4-(CON)CGHCCC1 and the product treated with HBr to give 4-(HO)CGH4COCGH4(NOZ)-4 which was etherified by Me2CBr and the reduced

L13 ANSWER 21 OF 362
ACCESSION NUMBER:
ITILE:
INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INSURATION:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
130:345086 CA
Thermal recording material
Ohashi, Reiji, Nakano, Tomoyuki, Yanai, Koichi,
Yoneshige, Seiki, Yoshioka, Hidetoshi
Nihon Seishi K. K., Japan
COORN. JXXXAF

Japanese
JAMILY ACC. NUM. COUNT:
1
Japanese

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

DATE APPLICATION NO. PATENT NO. KIND JP 11123876
PRIORITY APPLN. INFO.:
OTHER SOURCE(S):
GI A2 19990511 JP 1998-221200 JP 1997-221811 19980805 <--19970818

MARPAT 130:345086

A thermal recording material comprises a color former and a color developer represented by the formula I (X = a direct bond or a divalent group RI, R2 = alkyl, alkoxy, halogen, carboxy, alkoxycarboxyl, or carbamoyl R2, R3 = alkyl, alkoxy, halogen, hydroxy, carboxyl, or alkoxycarboxyl, E8, R6 = Hor alkyl, a, b, c, d = an integer of 0-4; m, n = an integer of 1-5).

25692-07-6P
RL: SFN (Synthetic preparation), TEM (Technical or engineered material use), PREP (Preparation), USES (USES) (preparation and use as color developer for thermal recording material) 52692-07-6 CM
EBENZENESULFORMER) (CA INDEX NAME)

L13 ANSWER 22 OF 362 CA COPYRIGHT 2005 ACS on STN (Continued)
product condensed with 2-chloro-2-imidazoline to give I [RI =
4-(Me2CO)CGH4, Z = 1,4-phenylene].

17 221531-11-99
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 2-((arylmethyl)phenylamino)-2-imidazolines as
prostaglandin
IP receptor antagonists)
RN 221531-11-9 CA
Benzenseulfonamide, N-[4-([4-[(4,5-dihydro-1H-imidazol-2-y1)amino]phenyl]methyl]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

● HC1

10/810,325

Lil Answer 23 of 362 CA Copyright 2005 ACS on STN
ACCESSION NUMBER:
130:217595 CA
Synthesis and Biological Properties of Novel
Pyridinicalkancyl Thiolesters (PATE) as Anti-HIV-1
Agents That Target the Viral Nucleocapsid Protein Zinc
Fingers
AUTHOR(S):

AUTHOR(S):

Turpin, Jim A.; Song, Yongsheng; Inman, John K.;
Huang, Hingjun; Wallqvist, Anders; Maynard, Andrew;
Covell, David G.; Rice, William G.; Appella, Ettore
Laboratory of Antiviral Drug Mechanisms and Laboratory
of Experimental and Computational Biology National
Cancer Institute-Frederick Cancer Research and
Development Center, SAIC Frederick, Frederick, MD,
21702-1201, USA
Journal of Medicinal Chemistry (1999),
42(1), 67-86
CODEN: JMCMAR; ISSN: 0022-2623
American Chemical Society
Journal
LANGUAGE:
Bnglish
AB Nucleocapsid p7 protein (NCp7) zinc finger domains of the human
immundeficiency virus type 1 (HIV-1) are being developed as antiviral
targets due to their key roles in viral replication and their mutationally
nonpermissive nature. On the basis of our experience with sym, disulfide
benzamides (DIRAs); Rice et al. science 1995, 270, 1194-1197), we
synthesized and evaluated variants of these dimers, including sets of
4,4'- and 3,3'-disubstituted di-Ph sulfones and their monomeric
benzisothiazolone derivs. (BITA). BiTAs generally exhibited diminished
antiviral potency when compared to their disulfide precursors. Novel,
monomeric structures were created by linking haloalkancyl groups to the
benzamide ring through -NH-C(:0)- (amide) or -S-C(:0)- (thiolester)
bridges. Amide-linked compas, generally lacked antiviral activity, while
haloalkancyl thiolesters and non-halogen-bearing analogs frequently
exhibited acceptable antiviral potency, thus establishing thiolester
benzamides per sa new anti-HIV chemotype. Pyridinioalkancyl
thiolesters as an new anti-HIV chemotype. Pyridinioalkancyl
thiolesters (ATES) as a new anti-HIV chemotype.
Pyridinioalkancyl
thiolesters as anti-HIV-1 agents targeting viral nucleocapsid protein
zinc fingers)

Publishers

RN

zinc fingers)
221119-80-8 CA
Benzamide, 2,2'-dithiobis[N-[4-[[4-[[4-(acetylamino)phenyl]sulfonyl]amino]phenyl]sulfonyl]phenyl]- (9CI) (CA INDEX NAME)

L13 ANSWER 24 OF 362
ACCESSION NUMBER:
130:209497 CA
SUBstituted benzene compounds as antiproliferative and cholesterol lowering agents
HOVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
PATENT ACC. NUM. COUNT:
PATENT ACC. NUM. COUNT:
PATENT ACC. NUM. COUNT:
1

A COPYRIGHT 2005 ACS on STN
130:209497 CA
A Substituted benzene compounds as antiproliferative and cholesterol lowering agents
Howard Clavering agents
Howard Clavering Access Compounds as antiproliferative and cholesterol lowering agents
Howard Clavering Access Compounds as antiproliferative and cholesterol lowering agents
Howard Clavering Access Compounds as antiproliferative and cholesterol lowering agents
L30:209497 CA
SUBSTITUTE CA
HOWARD ACCESSION AC

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PRI

1 20		010		····																
	PAT	TENT	NO.			KIN	D	DATE			APP	LIC	AT:	ON	NO.		D.	ATE		
							-										-			
	WO	9910	320			A1		1999	0304		WO	199	8-1	J\$16	781		1	9980	813	<
		W:	AT.	AH.	AT.	AU.	AZ.	BA,	BB.	BG.	BP	ì. E	Y.	CA.	CH.	CN.	CU.	CZ.	DE.	
			DK.	ER.	ES.	FI.	GB.	GE,	GH.	GM.	HP	Ĺ	īŪ.	ID.	IL.	IS.	JP.	KE.	KG.	
			KP.	KR.	K2.	IC.	I.K.	LR,	LS.	LT.	LU	i. I	v.	MD.	MG.	MK.	MN.	MW.	MX.	
			NO.	NZ.	PI.	PT.	RO.	RU,	SD.	SE.	SG		Ι.	SK.	SL.	TJ.	TM.	TR.	TT.	
			IIA,	110	112	VN.	VII.	ZW,	AM.	A7.	RV	7. Y	œ.	KZ.	MD.	RU.	TJ.	TM		
		bU.	GH,	GM.	VE,	1.5	MW	5D,	57	IIG.	25	7. 1	τ.	BE.	CH.	CY.	DE.	DK.	ES.	
			PT.	ED.	GB,	GD,	TE.	IT,	T.II	MC,	NI		т.	SE.	BF.	BJ.	CF.	CG.	CI.	
								MR,							,	,	••,	,		
	110	6294	933	un,	on,	R1	,	2001	0904	D.1.,	115	199	7-1	9170	25		1	9970	822	
	Ch	6284 2301	042			22		1000	0304		CA	199	8-	2301	842		i	0980	813	<
	AU	9887	074			λ1		1000	0316		AII.	190	8-1	782	4		i	9980	813	¿
		7488													•		•			•
	AU AU	1005	152			31		2000	0607		TD.	100	8-1	202	Ω.4		1	0990	813	
		1005										13.		,,,,	•		•	,,,,,	•••	
		R:									GE		т.	T.T	1.17	MT.	SE	MC.	PT.	
					un,	, 44	DV,	EJ,	PR,	GD,	G,	٠, ١	• • •	ш,	ь,	,	J. 15,	110,		
	•••		16,	-21				2001	0011		70	200	۸-		50		1	0000	012	
	JP	2001 2807	2141	0/		12		2001	1115		OF.	100		2010	0.4		- 1	220V	013	
	AT	2807	20					2004	1115		WI.	133		7774	62		•	0010	613	
	US	2002	0134	УO		WI.		2002	0131		US	200	, 1 -	0 / 24	V 3		-	0010	231	
	US	6388	131			82		2002	0214						25			^^7^		
10	RIT	Y APP	LN.	INFO	.:															
											wO	195	- 0	0210	781	,	• 1	338V	013	
HE.	R S	DURCE	(5):			MAR	PAT	130:	2094	97										

$$F \xrightarrow{\hspace*{-0.5cm} F \hspace*{-0.5cm} \longrightarrow \hspace*{-0.5cm} So_2-NH- \hspace*{-0.5cm} \longleftarrow OMe$$

RS(0)nYR1 [R = (un)substituted Ph; R1 = (un)substituted aryl, heteroaryl; Y = bond, o, (un)substituted NH, NHCH2, CH2; n = 1, 2] were prepared for use as antiproliferative and anticholesteremic agents. Thus, 1-bromo-2,3,4,5-tetrafluorobenzene was chlorosulfonylated and treated with 3,4-HO(HeO)C6H3NH2 to give the sulfonamide I. I had an antiproliferative IC50 against HeLa cells of 0.15 µH and a min. dose for maximum induction of LDL receptors of 0.15 µH.
220990-65-89

L13 ANSWER 23 OF 362 CA COPYRIGHT 2005 ACS on STN (Continued)

PAGE 1-A

PAGE 1-B

REFERENCE COUNT:

THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 51

L13 ANSWER 24 OF 362 CA COPYRIGHT 2005 ACS on STN (Continued)
RL: SFN (Synthetic preparation), THU (Therapeutic use), BIOL (Biological study), PREP (Preparation), USES (Uses)
(benzenesulfonanilides and diaryl sulfones as antiproliferative and anticholesteremic agents)
RN 220990-65-8 CA.
CN Benzenesulfonamide, N-[4-[(4-methoxyphenyl)sulfonyl]-2-nitrophenyl]- (9CI)
(CA INDEX NAME)

REFERENCE COUNT:

13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 25 OF 362 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
TITLE: Freparation of (hetero)aryl substituted
benzenesulfonamides for the treatment of anxiety
and/or depression
Bromidge, Steven Hark; Moss, Stephen Frederik
SOURCE: Smithkline Beecham Plc, UK
PCT Int. Appl., 42 pp.
CODEN: PIXXD2
DOCUMENT TYPE:

DOCUMENT TYPE: Patent English 1

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT .	INFOR	MATI	ON:															
PA.	TENT	NO.			KIN	D	DATE	:		APP	LICAT	ION	NO.		t			
WO	9902	502			A2		1999	0121		WO	1998-	EP49	73		1	9980	709	<
WO		502			A3		1999	0603										
	¥:										, BY,							
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	R₩:										, AT,							
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		CM,	GΑ,	GN,	GW,	ML,	MR,	NE,	SN,	TD	, TG							
CA	2296	033			AA		1999	0121		CA	1998-	2296	033		1	9980	709	<
, AU	9892	578			A1		1999	0208		ΑU	1998-	9257	8		1	9980	709	<
AU	7362	56			B2		2001	0726										
EP	9948	62			A2		2000	0426		EР	1998-	9451	62		1	19980	709	
EP	9948	62			В1		2005	0601			1998-							
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	, IT,	LI,	LU,	NL,	SE,	MC,	PT,	
		IE,	SI,	FI,	RO													
TR	2000	0007	3		T2		2000	0621		TR	2000-	2000	0007	3	1	19980	709	
BR	9810	991			A		2000	8080		BR	1998-	1099	1		1	19980	709	
JP	2002	5110	97		Т2		2002	0409		TD.	1999-	5091	86		1	ORPP	709	
CN	2002 1087 2968 9806	294			В		2002	0710		CN	1998- 1998- 1998-	8069	21		1	19980	709	
AT	2968	11			Ė		2005	0615		AΤ	1998-	9451	62 .		1	19980	709	
ZA	9806	139			Α		2000	0110		ZA	1998-	6139			1	19980	710	
										TW	1998-	8711	1166		1	19980	710	
NO	2000	0001	08		A		2000	0110		NO	2000- 2000-	108			- 2	20000	110	
US	6316	450		•	B1		2001	1113		US	2000-	4626	52		- 2	20000	110	
PRIORIT	Y APP	LN.								GB	1997-	1453	0		A 1	9970	711	
						,				GB	1997- 1998-	2453	0		A 1	19971	119	
										WO	1998-	EP49	73		W 3	19980	709	
OTHER S	DURCE	(S):			MAR	PAT	130:	1250	95									

L13 ANSWER 25 OF 362 CA COPYRIGHT 2005 ACS on STN

L13 ANSWER 25 OF 362 CA COPYRIGHT 2005 ACS on STN (Continued)

$$\underbrace{ \underset{R}{\overset{P}{\uparrow}}_{n}}_{P} \underbrace{ \underset{N-B}{\overset{R^2}{\downarrow}}_{N}}_{P} \underbrace{ \underset{R^3}{\overset{R^4}{\downarrow}}_{R^5}}_{R^5}$$

The title compds. [I; P = Ph, naphthyl, 5-7 membered heterocyclyl containing 1-4 heteroatoms selected from 0, N or S, etc.; A = a single bond, C1-6 alkylene, C1-6 alkynlene; B = SO2; R1 = halo, C1-6 alkyl optionally substituted by one or more fluorine atoms, C3-6 cycloalkyl, etc.; n = 0-6; R2 = H, C1-6 alkyl, aryl C1-6 alkyl, etc.; R3 = H, halo; C1-6 alkyl, etc.; R4 = X(CH2)pR6 (wherein X = a single bond, CH2, 0, etc.; p = 0-6; R6 = (un) substituted 4-7 membered heterocyclyl containing 1-3 heteroatoms AB

R4 = X(CHI)RR6 (wherein X = a single bond, CHI, 0, etc.; p = 0-6; R6 = (un)substituted 4-7 membered heterocyclyl containing 1-3 heteroatoms selected from N, S or O, NR7R8; R7, R8 = H, C1-6 alkyl, aryl C1-6 alkyl); R5 = R3; R3R5 = (CHI)2O, (CHI)3O optionally substituted with 1 or more C1-6 alkyl groups], useful in the treatment of CNS disorders such as anxiety and depression, were prepared Thus, refluxing
1-(4-methoxy-3-(4-methylpiperaxin-, refluxing)
1-(4-methoxy-3-(4-methylpiperaxin-, 1.2-dichloroethane for 18 h followed by addition of disopropylethylamine afforded S2* II.HC1 which showed pKi > 8.5 and selectivity > 100 against human cloned 5-HT6 receptors.

II 219961-54-3P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of (heterolaryl substituted benzenesulfonamides for the treatment of anxiety and/or depression)

RN 219961-54-3 CA
CN Benzenesulfonamide, 4-methoxy-3-(4-methyl-1-piperaxinyl)-N-[4-[44-nitrophenyl)thio]phenyl}-, monohydrochloride (9CI) (CA INDEX NAME)

L13 ANSWER 26 OF 362
ACCESSION NUMBER:
130:110250 CA
130:1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PRI

								DATE				LICAT					ATE .		
	DE	1972	7162			A1		1999	0107		DE	1997-	1972	7162		1	9970	626 <	
	WO	9900	375			A1		1999	0107		WO	1998-	EP35	92		1	9980	615 <	
												, BY,							
												, HU,							
												, LV,							
												, SI,							
												, BY,							
		RW:	GH.	GM.	KE.	LS.	MW.	SD.	SZ.	UG,	ZW	, AT,	BE,	CH,	CY,	DE,	DK,	ES,	
												, PT,							
								NE.											
	att	9991										1998-	8111	1		1.	9980	615 <	
												1998-							
	E.P															•	3300	013	
												, LI,							
		9903										1999-							
	BR	9810	941			A		2000	0926		BR	1998-	1094	1		1	9980	615	
	JP	2002	5126	32		T2		2002	0423		JP	1999-	5052	49		1	9980	615	
		9911										1999-							
'n		APP										1997-							
					• •							1998-				w i			

MARPAT 130:110258

OTHER SOURCE(S):

$$\underset{\mathbb{R}^3}{\text{Het}}\underset{x_{1}}{\underbrace{\hspace{1cm}}}^{\text{CO}}\underset{x_{1}}{\underbrace{\hspace{1cm}}}\underset{x_{1}}{\underbrace{\hspace{1cm}}}^{\text{NR}^4R^5}$$

$$\begin{array}{c} \text{Me} \\ \text{N} \\ \text{S} \end{array} \begin{array}{c} \text{C1} \\ \text{CO} \\ \text{CH2} \end{array} \begin{array}{c} \text{CH2} \\ \text{O} \end{array} \begin{array}{c} \text{NH2} \\ \text{II} \end{array}$$

The title compds. (I: Het = substituted thiazolyl, pyridyl, pyrimidinyl,

L13 ANSWER 26 OF 362 CA COPYRIGHT 2005 ACS on STN (Continued)
thiadiazolyl, R3 - H, (halo)alkyl, alkoxyalkyl, alkylcarbonyl,
(un)substituted arylcarbonyl, arylsulfonyl, etc., R4, R5 - H, COR6, CO2R7,
SOZR8; R6-R8 - (halo)alkyl, (halo)alkenyl, (halo)alkynyl, alkylthioalkyl,
(un)substituted cycloalkyl, etc., N1, N2 - halo, NO2, cyano, (halo)alkyl,
alkoxyr, Y - alk(en)ylene, alkyleneoxyr m, n - 0-3] were prepd., e.g., by
redn. of the parent nitro compds. and conversion of the resulting primary
amines. For example, treating a refluxing mixt. of 2.5 g
4-chloro-3-methyl-5-[4-(4-nitrophenoxy)phenylacetylaminojisothiazole and
2.0 g Fe powder in 50 mL 50% ag. EtcM dropwise with 0.16 mL HCl in 5 mL
50% RECM and refluxing the whole for 3 h gave 1.2 g II (m. 226')
which at 0.1% on rice seedlings gave 100% kill on Nephotettix cincticeps.

II 219658-56-7P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except
adverse); BSU (Biological study, unclassified); SFN (Synthetic
preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation) BIOL (Biological study); PREP (Preparation); USES (Uses)
-pyridines
as insecticides and fungicides)

RN 219658-56-7 CA
CN Benzeneacetamide, N-(4-chloro-3-methyl-5-isothiazolyl)-4-[4[(phenylsulfonyl)amino]phenoxy]- (9CI) (CA INDEX NAME)

PAGE 1-A

ACCESS TITLE:

INVENTOR (S):

ANSWER 27 OF 362 CA COPYRIGHT 2005 ACS on STN

ESSION NUMBER:

130:73850 CA

Positive-working photosensitive resin composition,
pattern formation using same, and manufacture of
electronic device

ENTOR(S):

ENT ASSIGNEE(S):

Hitachi, Ltd., Japan, Hitachi Chemical Co., Ltd.
Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKOKAF

Patent
UMENT TYPE:

GUAGE:

LY ACC. NUM. COUNT:

LY ACC. NUM. COUNT:

1

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. JP 10307394 A2 19981117 JP 1997-118980 19970509 <-PRIORITY APPLN. INFO.: JP 1997-118980 19970509
AB The title composition contains a compound that generates acid upon light irradiation
and a sulfone-containing polymer of the formula
(RICOR) (CORPA) ECONREA) K (NECORSC
ONHE2] 100-x (RI-3 = imido, C6-50 alkyl containing no side chain

ONERS]100-x (R1-3 = imido, Co-50 alkyl containing in alkoxycarbonyl group which may have a polyvalent linking group of O, S, methylene, amine, carbonyl, sulfone, ester, sulfonester, amido, urea, carbonate or carbamate, aryl, aralkyl, heterocyclic group, 21 of R1-3 has ≥1 sulfone group; x = 5-100 mol % in which the carboxyl group concentration is \$2.6 m mol/g. The composition is coated on a substrate, irradiated with an electromagnetic wave through a photomask, and developed with an alkaline developing solution to form a pattern. A method, of manufacturing an

manufacturing an electronic device using the composition and the above process is also

claimed.

The composition is developable with alkaline developing solms, and provides high-thick relief patterns with high sensitivity and resolution. The composition is useful for manufacture of elec. circuits.

IT 125677-73-09

129077-73-BP
RK: PNU (Preparation, unclassified); TEM (Technical or engineered material-use); PREP (Preparation); USES (Uses)
(acid generator; photoresist composition containing acid generator and

polvamic

acid having sulfone group) 125677-73-8 CA

125677-13-8 CA
1-Naphthalenesulfonamide, N,N'-(sulfonyldi-4,1-phenylene)bis[6-diazo-5,6-dibydro-5-oxo- (9CI) (CA INDEX NAME)

L13 ANSWER 26 OF 362 CA COPYRIGHT 2005 ACS on STN

(Continued) PAGE 2-A

L13 ANSWER 27 OF 362 CA COPYRIGHT 2005 ACS on STN

(Continued)

LI3 ANSWER 28 OF 362 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

ALRII-developable positive-photosensitive polyimide based on diszonaphthoquinons sensitizer

AUTHOR(S):

CORPORATE SOURCE:

CORPORATE SOURCE:

SOURCE:

SOURCE:

ACS Symposium Series (1998), 706(Micro- and Nanopatterning Polymers), 358-367

CODEN: ASSESSIONS SOURCE:

PUBLISHER:

DOCUMENT TYPE:

DOCUMENT TYPE:

LANGUAGE:

ARE Vereport on the pos. alkali-developable photosensitive polyimides based on an alkali-soluble polyimide precursor as a base polymer and diszonaphthoquinone (INNQ) sensitizer to improve process stability and sensitivity. Polyamic acid ester with pendant carboxylic acid (PAE-COOH) showed good dissoln. behavior in aqueous alkali developer. The dissoln.

showed good dissoln. behavior in aqueous alkali developer. The dissoln.

of PAE-COOH was controlled by the content of pendant carboxylic acid. It
was found that a photosensitive system composed of Bu ester of PAE-COOH
and a DNQ compound can avoid the residue at the edge of hole patterns
(footing) after development, while that of Me ester of PAE-COOH showed the
residue. A DNQ compound containing sulfonamide derived from
diaminodiphenylether renders improved sensitivity compared with DNQ
compds. derived from phenol derivs.
125577-12-7P
RL: SPN (Synthetic preparation) / TEM (Technical or engineered material
use): PREP (Preparation), USES (Uses)
(sensitizer, alkali-developable pos.-photosensitive polytmide based on
alkali-soluble polymide precursor and diazonaphthoquinone sensitizer for
lithog. photoresist applications)
12677-72-7 cA
1-Asphthalenesulfonamide, N,N'-(oxydi-4,1-phenylene)bis[6-diazo-5,6dihydro-5-oxo- (SCI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 29 OF 362 CA COPYRIGHT 2005 ACS on STN

L13 ANSWER 29 OF 362 CA COPYRIGHT 2005 ACS on STN
129:283432 CA
TITLE: 129:283432 CA
Heat-resistant photosensitive polymer composition and
formation of relief pattern
Nuncmure, Masataka, Uchimura, Shunichiro, Sasaki,
Hamoru Nishio, Shigeru
Hamoru Nishio, Shigeru
Hamoru Nishio, Shigeru
Hamoru Nishio, Shigeru
ODCUMENT TYPE: COURS: VROUAF
Patent
LANGUAGE: VROUAF
Patent
FAMILIACC. NUM. COUNT: 1

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 10239844
PRIORITY APPLN. INFO.:
OTHER SOURCE(S):
GI A2 19980911 JP 1997-47455 JP 1997-47455 19970303 <--19970303

MARPAT 129:283432

AB The title composition contains (a) a polyamic acid ester having a repeating unit COR1(CO2R3)2CONHR2NH (R1 = tetravalent organic group; R2 = CO2H- or phenolic Off-containing divalent organic group; R3 = monovalent organic group), (b) an o-quinonediazide compound, and (c) a pyridine derivative I (R4, R5 = alkyl).

A method of forming a relief pattern is also claimed, involving the steps of coating and drying the composition on a substrate, patternwise exposing, developing, and heat- treating the coating. The pos.-working composition shows

high photosensitivity and provides high quality relief patterns with high residual rate at the unexposed area.

125677-72-7

RI: TEM (Technical or engineered material use); USES (Uses)
(heat-resistant photoresist composition containing polyamic acid ester, quinonediazide compound, and pyridine derivative)

125677-72-7

CA
1-Maphthalenesulfonamide, N,N'-(oxydi-4,1-phenylene)bis[6-diazo-5,6-dihydro-5-oxo- (9CI) (CA INDEX NAME)

L13 ANSWER 30 OF 362 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
129:283431 CA
Heat-resistant photosensitive polymer composition and
formation of relief pattern
Nuncmura, Masatakas Nishio, Shigerus Sasaki, Mamorus
Uchimura, Shunichiro
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE.

CODEN: JEXCAF
Patent

DOCUMENT TYPE: Patent

Japanese

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

JP 10239842 A2 19980911 JP 1997-47457 19970303 A2 19980909 EP 1998-103712 19980303 A1 19980909 EP 1998-103712 19980303 A2 A1, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO PATENT NO. KIND DATE APPLICATION NO. DATE 19970303 <--19980303 <--

JP 1997-138347 JP 1997-246813 19970528 19970911

The title composition contains (a) a polyamic acid ester having a repeating unit CORI (COZ) ZCOMENZNH (RI - tetravalent organic group) R2 - COZH- or phenolic OH-containing divalent organic group R3 - monovalent organic

(D) a yamic acid having a repeating unit COR4 (CO2H) 2CONHR551R62 (OS1R62) qR5NH = tetravalent organic group; R5 = divalent organic group; R6 =

ralent organic group; q ≥ 1;), and (c) an o-quinonediazide compound A method of forming a relief pattern is also claimed, involving the steps of coating and drying the composition on a substrate, patternwise exposing, developing, and heat-treating the coating. The pos.-working composition

high photosensitivity and developability and provides a relief pattern showing good adhesion to substrate. 128577-72-8

IT 125677-72-7P

RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(heat-resistant photosensitive composition containing polyamic acid, polyamic acid ester, and quinonediazide compound)

RN 125677-72-7 CA

12507/-72-7 CA
1-Naphthalenesulfonamide, N,N'-(oxydi-4,1-phenylene)bis[6-diazo-5,6-dihydro-5-oxo- (9CI) (CA INDEX NAME)

L13 ANSWER 31 OF 362
ACCESSION NUMBER:
129:237670 CA
Heat-resistant photosensitive polymer composition for forming patterns for semiconductor device fabrication
Nuncmura, Hasatakas Sasaki, Mamorus Uchimura,
Shunichiros Ohe, Masayukis Nishio, Shigeru
Hitachi Chemical Co., Ltd., Japan
Eur. Patt Appl., 22 pp.
CODEN: EFEXXIW
DOCUMENT TYPE:
LANGUAGE:
FANILY ACC. NUM. COUNT:
English
PATENT IMPROMETION:
2

DOCUMENT TYPE: LANGUAGE: FAMILY ACC.'NUM. COUNT: PATENT INFORMATION:

PR

			NO.			KIN	0	DATE		AP	PLI	CATI	ON	NO.			DATE		
							•							12			19980	202	_
	E.P	803	436			A1		1998	0303	LP	13	30-1	1051	14			13300	303	
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB, G	R,	IT,	LI,	LU,	NL,	SE	, MC,	PT,	
			I E	SI,	LT,	LV,	FΙ,	RO											
	JP	102	3984	2		A2		1998	0911	JP	19	97-4	745	7			19970	303	<
	JP	103	3333	2		A2		1998	1218	JP	19	97-1	383	47			19970	528	<
	JP	110	8465	3		A2		1999	0326	JP	19	97-2	468	13			19970	911	<
RIO	RITY	' AP	PLN.	INFO	. :					JP	19	97-4	745	7	- 1	A	19970	303	
										JP	19	97-1	383	47	- 1	A	19970	528	
										JP	19	97-2	468	13		A	19970	911	

The present invention provides a heat-resistant pos.-tone photosensitive polymer composition capable of forming a heat-resistant polyimide usable as

buffer coating for an electronic component or as an interlayer dielectilm by heat treatment for semiconductor device fabrication. This composition

osition

comprises (a) a polyimide precursor or a polyimide having a carboxyl group or a phenolic hydroxyl group, (b) a polyamic acid having a siloxane bond, and (c) a photoacid generator.

125677-72-7

125677-72-7
RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)
(photoimaging compons. for heat-resistant pattern formation containing polyamic acids and)
125677-72-7 CA

12-Naphthalenesulfonamide, N,N'-(oxydi-4,1-phenylene)bis[6-diazo-5,6-dihydro-5-oxo- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 32 OF 362
ACCESSION NUMBER:
TITLE:
Synthesis of new water-soluble azaparacyclophanes as host compounds
AUTHOR(S):
CORPORATE SOURCE:
SOURCE:
SOURCE:
Hutpady
Huaxue Tongbao (1998), (6), 42-45
CODEN: HHTPAD/ ISSN: 0441-3776
Kevue Chubanshe
JOURNAIL
LANGUAGE:
GI

PUBLISHER: DOCUMENT TYPE: LANGUAGE: GI

Title compds. I (R = CH3, Cl, H; n = 0, 2, 4) were prepared by cyclization of bis(4-TsNH-3-R-benzene) methane and Br(CH2)nBr in DMF and deprotection by reflux with HBr in phenol.
74043-79-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREF (Preparation); RACT (Reactant or reagent)
(synthesis of azaparacyclophanes)
74043-79-1 CA
Benzenesulfonamide, N,N'-(methylenedi-4,1-phenylene)bis[4-methyl- (9CI) (CA INDEX NAME)

L13 ANSWER 31 OF 362 CA COPYRIGHT 2005 ACS on STN (Continued)

L13 ANSWER 33 OF 362 CA COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 129:142609 CA

TITLE;

A COPYRIGHT 2005 ACS on STN
129:142699 CA
Positive-working photosensitive resin composition,
pattern formation, and manufacture of large-scale
integrated circuit using same
Mitsuwa, Takaon Okabe, Yoshiaki, Maegawa, Yasunari,
Langlade, Geradine Rames, Ueno, Isao
Hitachi, Ltd., Japan, Hitachi Chemical Co., Ltd.
Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JXXXAF

INVENTOR (S):

PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE: LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

A2 19980714 PATENT NO. APPLICATION NO. DATE JP 1996-343595 JP 1996-343595 19961224 <--

JP 10186658 A2 19980714 JP 1996-343595 19961224 <-PRIORITY APPLM. INFO.:

AB The title composition comprises a resin having a repeating unit
RNMCOA(COZR1)(COZR2)CONH (A = tetravalent organic group constituting
C24 tetracarboxylic acids or their derivs. R1, R2 = H or
C520 aliphatic carboxylic acid, 21 of R1 and R2 is not H; R3 =
divalent organic group constituting diamine), a diszoquinone compound 1-100,
and a cresol novolak resin 1-30 parts per 100 parts of the resin
component. The composition is coated on a substrate, irradiated the coating
with an electromagnetic wave through a light-shielding mask, and developed
to form a pattern. A method of manufacturing a large-scale integrated
circuit
involving the above procedure is also claimed. The composition of the latest large-scale integrated

uit
involving the above procedure is also claimed. The composition shows high
developability and thermal resistance and provides high resolution relief
patterns with high mech. strength.
125677-72-7, 4,4'-Bis(1,2-naphthoquinone-2-diazido-5sulfonylamino)diphenyl ether
RE: TEM (Technical or engineered material use), USES (Uses)
(photoresist composition containing polyamic acid ester, diazoquinone
ound.

and cresol novolak resin)
125677-72-7 CA
1-Naphthalenesulfonamide, N,N'-(oxydi-4,1-phenylene)bis[6-diazo-5,6-dihydro-5-oxo- (9CI) (CA INDEX NAME)

L13 ANSWER 34 OF 362
ACCESSION NUMBER:
TITLE:
Positive-working photosensitive resin composition and polyinide film formation using it
Okabe, Yoshiaki, Haegawa, Yasushige; Mitsuwa, Takao;
Ueno, Isao; Langlade, Geradine Rames
Hitachi, Ltd., Japan; Hitachi Chemical Co., Ltd.
Jpn. Kokai Tokkyo Koho, 11 pp.
COUDEN INFORMATION.
LANGUAGE:
FAMILY ACC. NUM. COUNT:
1

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 10171116
PRIORITY APPLN. INFO.: A2 19980626 19961212 <--19961212

The title composition, developable with aqueous alkaline solms., contains a

R5

mmic acid ester I [R] = divalent organic group (55-85 mol% of R] are CO2H); R2 = hydrophobic group; X = SO2; n = 6-570] and an o-quinonediazidosulfonamide R(RR3R5); and/or an o-quinonediazidosulfonamide sulfone ester (R30)pR4(NR3R5)q (R3 = o-quinonediazidosulfonyl; R4 = C2-30 organic group;

= alkyl, H; m, q = 1-6; p = 1-5). The composition may also contain an organic

old solvent and the total concentration of the polymer and the oquinonediazidosulfonamide compd(s). may be 4-45 weight%. A solid substrate is coated with the composition, pre-baked, exposed through a photomask,

with an aqueous alkaline solution, and heat-treated to form a polyimide

The composition provides pos. polyimide relief patterns with good profile and is useful for semiconductor devices, etc.
 125677-727

125677-72-79
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(quinonediazidosulfonamide-containing pos.-working photosensitive polymer composition for polymide relief pattern formation)
125677-72-7 CA

12567/-72-7 CA
1-Naphthalenesulfonamide, N,N'-(oxydi-4,1-phenylene)bis[6-diazo-5,6-dihydro-5-oxo- (9CI) (CA INDEX NAME)

L13 ANSWER 35 OF 362 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
129:47418 CA
Material having super water repulsiveness controlled
by light for lithographic master printing plate and
electrophotographic photoreceptor
Sasaki, Hiroshi: Shoji, Mitsuyoshi; Kawashima,
Kenichi; Ito, Yutaka
Hitachi, Ltd., Japan
Jon. Kokai Tokkyo Koho, 23 pp.
CODEN: JOXCAF
DOCUMENT TYPE:
PATENT INFORMATION:
13 Japanese
FAMILY ACC. NUM. COUNT:
1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10114888	A2	19980506	JP 1996-269636	19961011 <-
US 6027852	A	20000222	US 1997-940951	19971008
US 6087072	A	20000711	US 1999-365869	19990803
PRIORITY APPLN. INFO.:			JP 1996-269636	A 19961011
			US 1997-940951	A1 19971008

The material comprises surface which has \$\greentlimes 150' \contact angle towards water, wherein the material surface has \$\square\$ 150' \contact angle upon light irradiation. The material has \$\square\$ 150' \contact angle upon light irradiation. The material has the transplant of the surface has \$\square\$ 20183-16-80P, reaction products with carboxy-terminated perfluoroalkyl polyethers.

RL: PNU (Preparation, unclassified), PREP (Preparation) (material having super water repulsiveness controlled by light) 208183-16-8 CA
Benzenesulfonamide, N-[4-[4-(4-aminophenoxy)phenoxy]phenyl]-4-phenoxy-(9CI) (CA INDEX NAME)

L13 ANSWER 34 OF 362 CA COPYRIGHT 2005 ACS on STN (Continued)

L13 ANSWER 36 OF 362
ACCESSION NUMBER:
128:270599 CA
Studies on water-soluble artificial receptors
containing chiral side chains derived from
carbohydrates. 1. Synthesis of optically active
cyclophane TCP44 and its complexation selectivity for
aromatic quests in acidic aqueous solutions
Takahashi, Ichiro; Hirano, Yuuki, Pakawa, Hiroshi;
Kitajina, Hidehiko; Hatanaka, Minoru; Isa, Kimio;
Odashina, Kazunori; Koga, Kenji
Dep. Applied Chem. and Biotechnol., Fac. Eng., Fukui
Univ., Fukui, 910, Japan
Heterocycles (1997), 46, 589-604
CODEN: HICTAM; ISSN: 0385-5414
Japan Institute of Heterocyclic Chemistry
Journal
English
English DOCUMENT TYPE: LANGUAGE:

MENT TYPE: Journal WAGE: English English English English L-Tartrate-derived cyclophane TCP44, the first totally synthetic host with a chiral hydrophobic cavity, and its complexation properties are described. The synthesis employs 1:1 cyclization via a U-shaped precursor containing chiral C4 units derived from L-tartaric acid. TCP44, soluble in acidic water as an amine salt, displayed a complexation selectivity for hydrophobic aromatic guests. Inclusion of aromatic guests into the cavity

verified by fluorescence and 1H NMR spectra. A possible structure of inclusion cavity is discussed. 74043-79-1 RACT (Reactant): RACT (Reactant or reagent) (preparation of optically active cyclophane TCP44 and its complexation selectivity for aromatic guests) 74043-79-1 CA Benzenesulfonamide, N,N'-(methylenedi-4,1-phenylene)bis[4-methyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

IT

THERE ARE 60 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 60

L13 ANSWER 37 OF 362 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
11TLE:
11TLE:
1NVENTOR(S):
1NVENTOR(S):
1NAISMERUAR, TAKEMERY
1NAISMERUAR, TAKEMERY
1NOCHIMENT TYPE:
1NOCHIM

Patent

DOCUMENT TYPE: Japanese 2 LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

DATE PATENT NO. KIND DATE APPLICATION NO. 19960816 <--19970718 19960719 19960816 JP 10062895 US 6013421 PRIORITY APPLN. INFO.: JP 1996-216206 US 1997-897159 JP 1996-207708 JP 1996-216206 19980306 20000111

OTHER SOURCE(S):

MARPAT 128:263878

-NHNH-Z

The title material contains, in ≥1 of the hydrophilic colloid layers formed on a support, a color developing agent I (2 = carbamoyl, acyl, alkowycarbonyl, arylowycarbonyl, 0 = atoms required to form an unsatd, ring along with the C atom), a coloring coupler that forms a dye image upon coupling with the oxidized product of the developing agent, and a couple that coupling-reacts with the oxidized product, but is not color-developed to an extent contributing to the image d. The material is heat-developed or developed in a solution to form an image. The material 201120-17-2 behalf of a material material was to the image of the material contributing to the image.

205120-17-8

RL: TEM (Technical or engineered material use); USES (Uses)
(photog film containing hydrazine derivative developer and coloring and noncoloring couplers)
205120-17-8

CA (Senzeneulfonamide, N-[3-[[[3-[7-chloro-6-(2-phenoxyethoxy)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-4-(4-methoxyphenoxy)phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 38 OF 362
ACCESSION NUMBER:
TITLE:
Silver halide photographic material containing color developing agent and coupler and imaging method for it NYENTOR(S):
NAKAMURA, Takemare, Matsumoto, Kazuhiko
Fuji Photo Film Co., Ltd., Japan
DOCUMENT TYPE:
DOCUMENT TYPE:
DOCUMENT TYPE:
LANGUAGE:
Japanese

DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PR

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10039467	A2	19980213	JP 1996-207708	19960719 <
US 6013421	A	20000111	US 1997-897159 '	19970718
RIORITY APPLN. INFO.:			JP 1996-207708 A	19960719
			JP 1996-216206 A	19960816

For diagram(s), see printed CA Issue.
The material contains a color developing agent I (Z = CONH2, acyl, alkoxycarbonyl, aryloxycarbonyl) Q = atomic group forming unsatd. ring) and

coupler Cp-(Time) t-PUG [Cp = coupling group reactive with oxidized I; (Time) t-PUG = leaving group from Cp upon coupling reaction coupling. Time = PUG-generating group after released from Cp; PUG = useful group for photog; t = 0-3] in ≥1 hydrophilic colloid layer. In the imaging method, the above material is developed by applying heat, using a liquid developer, or developing in the presence of an alkali generated from a hardly-soluble metal salt and a complexing agent therefor. The material shows high graininess and sharpness and the method can develop the material rapidly and reduce processes of wastewater treatment.

RL: DEV (Device commonant use).

Zueu/,--/--B.
RL: DEV (Device component use); USES (Uses)
(coupler; silver halide photog. material containing color developing

and coupler in hydrophilic colloid layer)
204077-07-6 CA
Octanamide, 2-{2,4-bis(1,1-dimethylpropyl)phenoxy}-N-{3-chloro-5-{4-{{3-chloro-5-{16-{1,1-dimethylethyl}-2-{4-{(methylsulfonyl)amino|phenyl}-7H-pyrazolo[1,5-b][1,2,4]trizol-7-ylidene]amino]-2-hydroxyphenyl]sulfonyl]amino]phenoxy]-2-hydroxyphenyl]sulfonyl]amino]phenoxy]-2-hydroxyphenyl]- (9CI) (CA INDEX NAME)

L13 ANSWER 37 OF 362 CA COPYRIGHT 2005 ACS on STN (Continued)

PAGE 2-A

L13 ANSWER 38 OF 362 CA COPYRIGHT 2005 ACS on STN

(Continued)

PAGE 1-A

PAGE 2-B

L13 ANSWER 38 OF 362 CA COPYRIGHT 2005 ACS on STN

(Continued)

L13 ANSWER 40 OF 362 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
TITLE:
INVENTOR(S):

CA COPYRIGHT 2005 ACS on STN
128:180412 CA
129:180412 Yasunari Snow Brand Milk Products Co., Ltd., Japan PCT Int. Appl., 152 pp. CODEN: PIXXD2 Patent PATENT ASSIGNEE (S): DOCUMENT TYPE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE WO 9805648 W: AU, CA, NZ, RW: AT, BE, CH, JP 10101650 19970807 <--WO 1997-JP2765 A1 US 19980212 US DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, A2 19980421 JP 1997-208425 B2 20020107 AA 19980212 CA 1997-2234051 C 20020903 MC, NL, PT, SE 19970718 <--RW: AT, JP 10101656 JP 3243733 CA 2234051 CA 2234051 AU 9737841 AU 734322 EP 855391 EP 855391 R: AT 19970807 <--19970807 <--19980225 AU 1997-37841 19980729 EP 1997-934731 19970807 <--EP 855391
EP 855391
R: AT, BE, CP
AT 252082
ES 2206739
US 5959107
PRIORITY APPLN. INFO.: 20031015 DK, ES, FR, 20031115 20040516 GB, IT, LI, LU, NL, SE, IE
AT 1997-934731
ES 1997-934731
US 1998-51404
JP 1996-223271
JP 1997-208425
A 1 DE, E T3 19970807 19970807 19990928 19980528 19960807 19970718 19970807 WO 1997-JP2765 OTHER SOURCE(S): MARPAT 128:180412

L13 ANSWER 39 OF 362 CA ACCESSION NUMBER:

A COPYRIGHT 2005 ACS on STN

128:186505 CA
Photosensitive polyamic acid composition with high
sensitivity providing images with high thermal
resistance and relief pattern made of polyimide
Nuncomra, Masataka; Uchimura, Shunichiro; Mitsuwa,
Takao
Hitachi Chemical Co., Ltd., Japan
Jpa. Kokai Tokkyo Koho, 9 pp.

CODEN: JKOXAF
Patent
Japanase
1 INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. DATE KIND DATE APPLICATION NO. JP 10010717 PRIORITY APPLN. INFO.: A2 19980116 JP 1996-167464 JP 1996-167464

PRIORITY AFFLM. INFO.:

JF 1996-16/464

The composition comprises
[C(O) R1 (CO2R5) 2CONHRANH] | IC(O) R1 (CO2R5) 2CONHR3 (R6NH2)

NNI] m(C(O) R2 (CO2R5) 2CCONHRANH] | (R1 = C≥2 tetravalent organic group, R2

— C≥2 divalent organic group with ≥1 CO2H (number of CO2H is not included in the C number) R3 = trivalent organic group containing aromatic

included in the C number; ...

R1 = C22 divalent group; R5 = C21 organic group; R6 = S02, CO; one
of two inino groups bonded to R3 and -R6NH2 are at orthor 1 = 20-90%, m =
5-15%, n = 0-79.5%) and o-quinonediazide. The relief pattern is formed by
coating the above photosensitive composition, drying, exposing, developing,

heat-processing. The polymer shows high sensitivity, providing images with high thermal resistance for a short development time.

125677-72-7 ΙT

125677-72-7
RI: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses) (photoresist containing polyamic acid and o-quinonediazide for heat-resistant polyimide relief pattern)
125677-72-7 CA

12567/-72-7 CA 1-Maphthalenesulfonamide, N,N'-(oxydi-4,1-phenylene)bis[6-diazo-5,6-dihydro-5-oxo- (9CI) (CA INDEX NAME)

L13 ANSWER 40 OF 362 CA COPYRIGHT 2005 ACS on STN (Continued)
etc., and n is 0, 1 or 2; R1 = H, nitro, etc.) are prepd. I have an
inhibitory activity on nerve call death of the spoptosis type. I are
useful as preventives and remedies for neurodegenerative diseases such as
Alzheimer's disease, Parkinson's disease, Huntington's chorea and
amyotrophic lateral sclerosis, ischemic cerebral diseases such as cerebral
stroke, and peripheral nerve disorders obsd. in diabetes, etc. The title
compd. II at 1 µM gave about 40% inhibition of 6-hydroxydopamineinduced death of nerve cells.

II 203339-50-8P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); ESS (Uses)
(preparation of isoquinoline derivs. for the treatment of
neurodegenerative
diseases)

diseases)
20339-50-8 CA
Benzenesulfonamide, N-[2-amino-4-(5-isoquinolinylthio)-5-nitrophenyl]-4-methyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

The title compds. I [Ar represents an optionally substituted aromatic ring,

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=> d his
     (FILE 'HOME' ENTERED AT 10:32:39 ON 27 JUL 2005)
     FILE 'REGISTRY' ENTERED AT 10:32:47 ON 27 JUL 2005
L1
                STRUCTURE UPLOADED
L2
            685 S 1L SAM
L3
           1222 S L1 FULL
     FILE 'CA' ENTERED AT 10:33:31 ON 27 JUL 2005
            482 S L3
L4
            403 S L4 AND PY<2000
L5
L6
             20 S L5 AND (PPAR OR DRUG?)
L7
             18 S L5 AND DRUG?
              0 S L5 AND PPARY
L8
L9
             2 S L5 AND PPAR
L10
             27 S L5 AND PHARM?
L11
             2 S L5 AND MODULAT?
            41 S L6 OR L7 OR L8 OR L9 OR L10 OR L11
L12
            362 S L5 NOT L12
L13
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---Logging off of STN---

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10/810,325